Austin Hughes - Leading Edge Solutions

EMEA 2021 Q3



Rack Solutions

- Power Security Airflow Sensor
- Screen KVM

IT Solutions

- Web Power Reboot
- Professional LCD





Founded in 1995, Austin Hughes is a design and manufacturing group that offers a broad range of solutions based around 19 inch rack mount and IT technologies. Providing world class expertise, quality products and unrivalled service to our clients globally.

We support a worldwide customer base through global locations in the Americas, EMEA, APAC and ASEAN which is complimented by an extensive authorized channel partner network in all regions. Our experienced teams are committed to providing a truly harmonised support structure. Our expertly trained sales and technical teams fully cater for customer specific requirements on all our solutions with exemplary pre and post sale services.

At Austin Hughes we are committed to sustainable manufacturing and continually assessing our processes to reduce our energy consumption and the use of hazardous materials across our global facilities. We provide rack mount solutions that help manage power capacity, reduce downtime and energy costs and improve energy efficiency for our clients, enabling them to make informed capacity planning decisions and improve operational efficiency. Our solutions are Reach, RoHS and PFOC compliant, and are manufactured in accordance with the strictest BSI ISO 14001 quality achievement.



Infra Power®

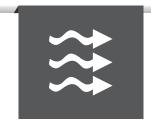
Rack Power Management

- >> Intelligent, Metered & Basic PDUs
- >> Intelligent & Metered ATS
- >> In-Line Meter
- >> Lockable IEC Outlets & Color Power Cords



Rack Airflow Control

- >> Door Mount Fan Panel, Intelligent or Basic
- >> 1U Rack Mount Fan Tray, Intelligent or Basic
- >> Raised Floor Mount Fan Panel, Intelligent or Basic





Infra Guard

Rack Sensor System

- >> Temperature + Humidity
- >> Temperature
- >> Smoke
- >> Shock

- >> Water Leakage
- >> Door Open/ Close
- >> Alarm Beacon
- >> LED Light Bar



Rack Access Control

- >> S700 Standalone SmartCard & NumPad Access
- >> S800 Standalone SmartCard Access
- >> X800 Networked SmartCard Access





$\pmb{C}_{\pmb{y}} \pmb{\mathsf{ber}} \pmb{\mathsf{View}}^{^{\mathsf{TM}}}$

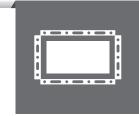
Rack KVM & Screen

- >> KVM Switch
- >> LCD Console Drawer
- >> LCD Display Panel & Drawer
- >> Multiple LCD Display Drawer



Professional LCD

- >> 4K 55", 43", 32", 28", 23", 17", 15" & 13"
- >> FHD 55", 43", 32", 28", 23", 21", 17", 15" & 13"
- >> FHD 144Hz 27" & 17"
- >> WUXGA 24" & 16.2"
- >> Regular 20", W19", 19", 17", 15", 12" & 10"







Web Power Reboot

- >> C13 Single / Dual Power Input
- >> NEMA Single / Dual Power Input
- >> UK BS1363 Single Power Input
- >> German Schuko Single Power Input
- >> French Single Power Input

Austin Hughes produces affordable, quality InfraPower PDU while providing you with superior service. Whether it is enhancing customer care or implementing new technologies, Austin Hughes promotes innovation, quality and satisfaction in all aspects of business.

PDU series	Basic	Metered		Monitored		Switched	
		MD	MK	W	Wi	WS	WSi
1-Phase: 230V / 208V / 110V	~	~		~	~	~	~
3-Phase: 400V / 208V	~		~	~	~	~	~
Outlet Level Measurement Over IP					~		~
Outlet ON / OFF Switching Over IP						~	~
Latching Relay						v	~
Field Replaceable DC Module				~	~	V	~
Amp & kWh Measurement			~	~	~	~	~
Hot-Swappable Meter			~	~	~	~	~
Billing Grade Meter Accuracy Within +/- 1%			~	~	~	~	~
1.8" Color LCD Meter			~				
2.8" Color Touch LCD Meter				~	~	~	~
32 Daisy Chained PDUs Supported on 1 IP				~	~	~	~
Free Management Software				~	~	~	~
SNMP Capability V1 / V2 / V3				~	~	V	~
Phase Balance % for 3-Phase PDUs			~	~	~	~	~
Local Meter		~	~	~	~	~	~
Resettable Fuse / Hydraulic MCB	~	~	~	~	~	~	✓
Options: ELCR / Surge Protector / EMI Filter	~	~	~	~	~	~	~
RCM (Residual Current Monitoring Module)				~	~	~	~
Temp., Humidity, Smoke & Door Sensors				~	~	~	~
Door Mount PDU Panel w/ 4.3" Color LCD				~	~	~	~
WiFi Kit (Supports Max. 32 Daisy Chained PDUs)				~	~	~	~
Tool-less Mounting for Vertical PDU	~	~	~	~	~	~	~
0U / 1U / 2U Form Factors	~	~	~	~	~	~	~
Operating Temperature -5 to 60°C	~	~	~	~	~	~	~
Outlet : US NEMA / C13 / C19 / UK / SCH / FR	~	~	~	~	~	~	~
Lockable IEC	~	~	~	~	~	~	~
Fused IEC	~	~	~	~	~	~	~
Dual Feed PDU model	~	~		~	~	~	~
Custom PDUs on Request	~	~	~	~	~	v	~



1 Phase

230V 16A / 20A / 32A

	Outlet		PDU Chassis	
UK	C13	C19	Vertical	Rackmount
24			✓	
20			~	
16			~	
12			✓	
10			~	
8			✓	✓
7			~	~
6			~	✓
8	16	4	✓	
8	8	4		~
8	8	2		✓
8	6	4		~
4	20	4	~	
4	20	4	✓	
4	16	4	~	
4	12	4	~	
4	8	4	~	

	Outlet		PDU Chassis		
SCH /FR	C13	C19	Vertical	Rackmount	
20			~		
16			~		
12			~		
8			✓	✓	
7				~	
6				~	
4	20	6	~		
4	20	4	~		
4	16	4	~		
4	12	4	~		
4	8	4	~		
8	8	4		~	
8	8	2		~	
8	6	4		~	

230V 16A / 20A / 32A

208V 20A / 30A

36 6	Ou	tlet	PDU Chassis		
30 6	C13	C19	Vertical	Rackmount	
28 6 28 4 24 6 24 4 20 6 20 6 20 4 20 2 16 4 16 2 12 12 12 2 8 4 8 2 4 4 32 28 24 24 24 20 12 10 8 4 10 12 10 <td>36</td> <td>6</td> <td>~</td> <td></td>	36	6	~		
28 4 V 24 6 V 24 4 V 20 6 V 20 4 V 20 2 V 16 4 V 12 12 V 12 4 V 12 2 V 8 4 V 36 2 V 4 4 V 28 V V 24 V V 20 V V 16 V V 12 V V 10 V V 12 V V 10 V V 10 V V	30	6	~		
24 6 . 24 4 . 20 6 . 20 4 . 20 2 . 16 4 . 16 2 . 12 12 . 12 2 . 8 4 . 8 2 . 4 4 . 32 . . 28 . . 24 . . 20 . . 16 . . 12 . . 10 . . 8 . . 4 . . 12 . . 10 . . 8 . . 4 . . 10 . . 10 . . 10 . . 10 . <t< td=""><td>28</td><td>6</td><td>~</td><td></td></t<>	28	6	~		
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21 3 20 6 20 4 20 2 16 4 12 12 12 12 12 2 8 4 8 2 6 2 4 4 36 32 28 24 20 16 12 10 8 4 11 12 10 10 10 10		6	~		
20 6	24	4	~		
20	21	3	~		
20	20	6	~		
16 4 V V 16 2 V 12 12 V 12 4 V V 12 2 V V 8 2 V V 6 2 V V 4 4 V V 32 V V V 28 V V V 24 V V V 16 V V V 10 V V V 8 V V V 12 V V V 11 V V V 12 V V V 10 V	20	4	~	~	
16 2 12 12 12 4 12 2 8 4 8 2 6 2 4 4 36 32 28 24 20 16 12 10 8 6 4 10 10 10 10 10 10 10 10 10			~		
12 12	16		~	~	
12			~		
12		12	~		
8 4 V 8 2 V 6 2 V 4 4 V 36 V 32 V 28 V 24 V V 20 V V 16 V V 12 V V 8 V V 6 V V 4 V V 12 V V 10 V V 8 V V			✓	✓	
8 2 6 2 4 4 36 32 28 24 20 16 12 6 4 12 10 8			~		
6 2			✓		
4 4 4	-		~	~	
36 32 28 24 20 16 12 10 8 6 4 12 10 8 6 4 12 10 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7					
32	4	4		~	
28 24 20 16 20 17 18 20 20 20 20 20 20 20 20 20 20 20 20 20					
24					
20	-		✓		
16					
12			~	~	
10	-		✓	~	
8			~	~	
6			~		
4			~		
12					
10 🗸	4				
8					
6					
		6		~	
4		4		~	

RoHS3

REACH (



FC





cUL & TUV available for selective configurations

3 Phase

400V 16A / 32A

Outlet	PDU Chassis		
UK	Vertical	Rackmount	
24	~		
21	~		
18	~		

Outlet	PDU Chassis			
SCH / FR	Vertical	Rackmount		
24	~			
21	~			
18	~			



PDU drawings available for download : www.austin-hughes.com/resources/rack-pdu-selector



Custom configurations available on request

400V 16A / 32A / 63A 208V 20A/30A/50A/60A

0	d.a	DDILO	• .	
Out		PDU Chassis		
C13	C19	Vertical	Rackmount	
36	12	✓		
36	6	~		
30	12	✓		
30	6	✓		
24	12	✓		
24	6	✓		
21	3	✓		
18	6	✓	~	
12	12	✓		
12	6	~	~	
6	3		~	
48		~		
42		✓		
36		~		
30		~		
24		✓	~	
18		~	~	
12			~	
	24	✓		
	18	~		
	12	✓	✓	
	9		~	
	6		~	

^{*} Rackmount PDU chassis available for 400V 16A/32A & 208V 20A/30A standard configurations

110V 15A / 20A / 30A

Outlet	PDU Chassis				
US NEMA	Vertical	Rackmount			
36	~				
32	~				
28	~				
24	~	~			
20	~	~			
16	~	~			
12	~	~			
10	~	~			
8	✓	~			

Inlet & Cordset

Cor	Cordset	
mm²	length	
4	3 M	
2.5	3 M	
1.5	3 M	
1.5	3 M	
1.5	3 M	

Inlat (1 DU 200V)	A	Cordset		
Inlet (1-PH 208V)	Amp	AWG	length	
€ L6-30P	30A	10	10 FT	
L6-20P	20A	12	10 FT	

Inlet (1-PH 110V)	Amp	Cordset		
illiet (1-PH 110V)	Amp	AWG	length	
L5-30P 5-30P	30A	10	10 FT	
L5-20P 5-20P	20A	12	10 FT	
5-15P	15A	14	10 FT	

Inlet (3-PH 400V)	Amp	Cordset		
illiet (3-F11 400 V)	Allip	mm²	length	
60309	63A	10	2 M	
60309	32A	4	2 M	
60309	16A	1.5	2 M	

Inlet (3-PH 208V)	Amp	Cordset	
illiet (3-F11 200V)	Amp	AWG	length
60309	60A	6	6.6 FT
CS8365C	50A	6	6.6 FT
L15-30P	30A	10	6.6 FT
(L21-30P			
L15-20P	20A	12	6.6 FT

InfraPower intelligent PDUs are supplied with a sophisticated meter with 2.8" color LCD display and touchscreen functionality. The iMeter provides not only local metering, but also daisy chain connection ports to connect up to 32 PDUs and 2 optional external sensors.

00 00 00 D 226. 2 22.5 219. 2 13.8 223. 2 8.2 1A-B Infra Power 00 00 00 00 Billing Grade Meter Accuracy Within +/- 1% 00 - Energy Consumption (kWh) 00 - Power (KW) - Power Factor - Current (Amp)

iMeter

Cascade port

Up to 32 PDU Levels

Sensor port x 2

- Door Mounted PDU Panel
- Temperature & Humidity Sensor
- Temperature Sensor
- Smoke Sensor
- Door Sensor

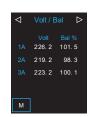
2.8" color LCD

with Touchscreen

Reset button

To re-power the meter if necessary but won't cause any change on settings and memories

Meter Reading & Setting













The sharp and highly visible display of color LCD provides local data of:

- Voltage (V)
- Temperature & Humidity

The power data has a billing grade meter accuracy to within +/- 1%.

Outlet level measurement available for WSi & Wi models.

Phase balance % available for 3-Phase models.

Field Replaceable Meter

A field replaceable RMS meter with 2.8" color LCD display with touchscreen functionality. The hot swappable design helps eliminate maintenance downtime by simply replacing a possible defective meter without a service interruption.

Field Replaceable DC Module

Given the mission critical nature of the environment the intelligent rack PDU is designed, built and manufactured to provide extremely high levels of resiliency. In addition to the hot swappable digital local touchscreen display, field replaceable DC power modules are used within the intelligent PDU models to avoid unnecessary downtime.



nfra Power

00 00 00

DO

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DO

With any rack mount device or in-cabinet PDU, one of the largest challenges is to integrate the device into the data center environment without building up additional connectivity, cable run, patch panel, or network related costs.

Patented PDU IP Dongle provides IP remote access to the PDUs by a true network IP address chain. Only one PDU IP Dongle allows access to all PDUs in a single daisy chain – which is a highly efficient application for saving not only the IP remote accessories cost, but also the true IP addresses required on the PDU management.

Hot-Pluggable design facilitates the IP Dongle installation. Simply integrate the PDU IP Dongle to the first PDU, then the entire daisy chain group can be remote over IP. Two RJ-45 connection ports are provided by an IP Dongle. Up to 32 PDU can be cascaded, subject to the dongle model.

The new stylish Dual Lan PDU IP Dongle provides standard 10/100 & Gigabit Ethernet ports. The PDUs in daisy chain can be accessed via two separate networks and hence the PDU connection can be secured by dual LAN network.

For enterprise software management, Dual LAN PDU IP Dongle supports DCIM integration via **SNMP V2 / V3** or **REST API**.



PD-H03-S

- Dual LAN IP Dongle Horizontal
- For 1U iPDU
- Up to 32 levels in daisy chain



IPD-03-S

Dual LAN IP Dongle - Vertical

- For 0U / 2U iPDU
- Up to 32 levels in daisy chain



Dual LAN Network Failure

- ► Auto failover to a 2nd Ethernet-connection in the event of network interruption
- ► Ensuring 100% iPDU uptime reporting



Connectivity

- Access your iPDU on two independent networks or VLANs
- Auto-negotiable 10/100 BaseT Ethernet & 1000 BaseT Gigabit Ethernet ports
- Redundant network access to connected iPDUs via IP



USB WIFI Port

 Optionally connect via a Wifi kit (IPD-WIFI) complying with 802.11 g/n/ac



Remote Management

- Significantly reduce the number of Ethernet ports used in deployment by cascading a single network connection across multiple iPDUs (up to 32).
- Simultaneous access via free management software IPM-04, web GUI, DCIM integration via SNMP V2 / V3 or REST API.
- Remote level & ID setting for cascaded iPDU's.
- Protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4.



Enterprise Level IP Authentication

- Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS), Remote Access Dial-In User Service (RADIUS) protocol, or local credential database.
- Strong passwords and granular user/ user group permissions.



Alerts / Alarms

- Receive alerts via SNMP, email (SMTP), and syslog when predefined thresholds are exceeded for both iPDU and environmental sensor events.
- Common SNMP MIBs (Management Information Base) across all iPDU families.

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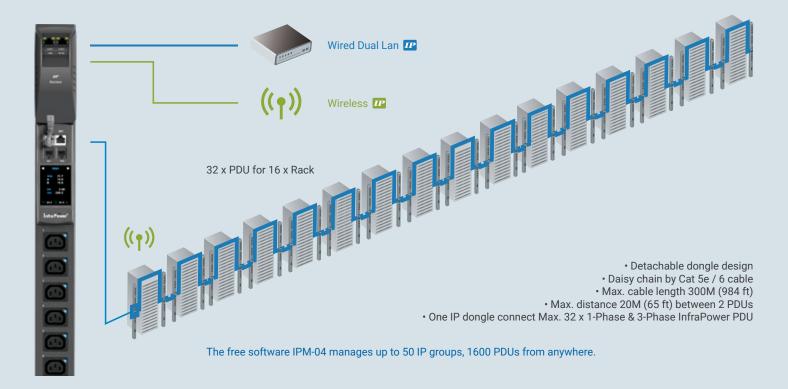
PDU

InfraPower rack intelligent PDUs provide connection ports for PDU daisy chain. To daisy chain units, each PDU can simply be connected in series to the next by Cat5/6 cables. With the Dual Lan PDU IP Dongle (IPD-03-S / IPD-H03-S), up to 32 daisy chain levels can be achieved. Single & Three Phase PDUs can be inter-cascaded in a single daisy chain.



High Efficiency PDU Remote Management

Patented PDU IP Dongle provides IP remote software access to the PDUs by a true network IP address chain. Only one network IP is required for maximum 32 PDUs in a single daisy chain. The free but comprehensive IPM-04 supports up to 50 IP groups. Hence, max 1600 PDUs can be remotely managed from anywhere.





Free Management Software IPM-04

InfraPower Manager IPM-04 is the free, powerful and user friendly PDU management software provided with W Series PDUs. The Administrator can remotely manage the PDUs and the temperature / humidity sensors via the web browser. The Windows based software consolidates management of max. 1600 single & three phase PDUs via 50 IP dongles. 5 concurrent user access licences are part of the IPM-04 bundle, for achieving the demand of multi-user requirements in data center operations. IPM-04 provides complete PDU monitoring / control and reporting functions for your data center.

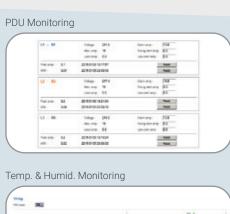
Web-based GUI

A web-based GUI is integrated with our intelligent PDU. It is ideal for users who simply require the power monitoring and input switching over IP.

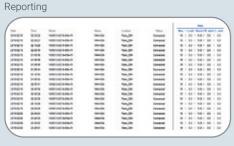
3rd Party DCIM via SNMP V2/V3 or REST API

Many data centers apply the DCIM (Data Center Infrastructure Management) in order to centralize the management for monitoring power, cooling and environmental factors across facilities and IT systems. InfraPower intelligent PDU supports SNMP V2/V3 or REST API integration and hence user can remotely manage the PDU via their DCIM.

	IPM-04 Managment Software	
Capacity	IP Dongle Group (Just 1 for 32 PDU levels)	50
	PDU Number	1600
	Concurrent Users	5
Features	Outlet Level kWh & Amp Measurement	~
	Circuit Level kWh & Amp Monitoring	~
	Apparent Power (kVA) Monitoring	~
	Power Factor Measurement	~
	Circuit Breaker (MCB) Monitoring	~
	Temp-Humid Monitoring	~
	Individual Outlet Switch ON / OFF	~
	Outlet Scheduling	~
	Alarm Threshold Setting	~
	Rising Alert Threshold	~
	Remote Access via Web	~
	Graphic User Interface	~
	Reporting	~
Circuit breaker monitoring	1-Phase / 3-Phase W - Monitored PDU	~
	1-Phase / 3-Phase Wi - Monitored PDU (Outlet Measurement)	~
	1-Phase / 3-Phase WS - Switched PDU	~
	1-Phase / 3-Phase WSi - Switched PDU (Outlet Measurement)	~







Outlet Outlet

Outlet ON/OFF Switching & Latching Relay

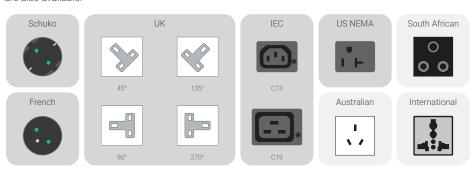
Outlet LEDs are built-in for WS & WSi PDU models with outlet switching functionality. Outlet switching is controlled via latching relays. Ensuring an 'always on' operational performance and outlet status returning to a pre-power outage after a planned or unplanned shutdown. Power consumption during normal/ standard operation is low and therefore assists to reduce energy usage of the overall PDU.



Broadest Outlet Selection for Rack PDU

Standard InfraPower PDU configurations cover the most popular outlets in rack PDU market: IEC, US NEMA, UK BS1363, German Schuko & French outlets.

For project based custom requirements, specific outlets (e.g. Australian, South African or International) are also available.



Multiple Outlet Configurations

Multiple outlets provide flexibility on variety of power connection to different devices.













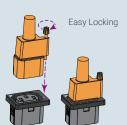
French + IEC



Lockable IEC Outlet

- Lockable IEC outlet PDU models are available to secure plugs and prevent accidental disconnection
- Supports standard or switched outlets
- Compatible with InfraPower lockable IEC power cords for outlet locking features











Regular Outlet No LED

Easy Locking



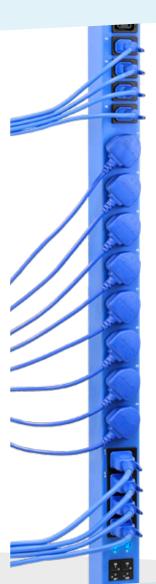






Colored PDU Power Feed Differentiation

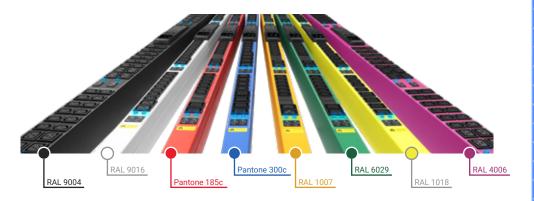
The use of colors at rack PDU and cord levels has become a huge market trend with most organizations favouring different colors in the rack for the A & B primary and redundant feeds into equipment. Colored PDU chassis & power cords are available to achieve such power source visualization & cable management



Colored PDU Chassis

Colored PDU chassis allow easy identification of power paths and simplifies management of power sources. Standard color: Black

Optional color: White, Red, Blue, Green, Orange, Yellow, Purple



Colored UK Power Cord

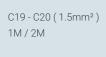
- Enhance cable management and visualize power sources
- Selection : Blue / Red UK - C13 (0.75 mm²): 3ft / 6ft



Colored Lockable IEC Power Cord

- Connect to InfraPower lockable IEC outlets to secure plugs and prevent accidental disconnection
- Selection: Black / Grey / Red / Blue / Orange / Green

C13 - C14 (0.75mm²) 0.5M / 1M / 2M













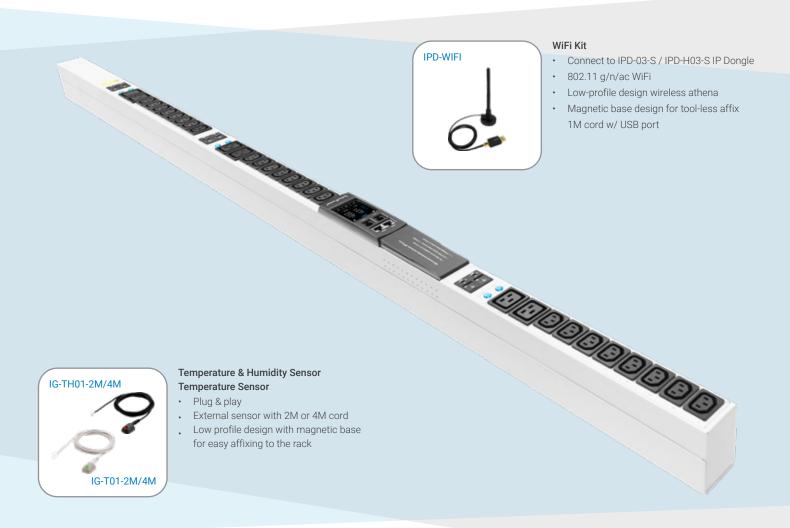


W series PDU meter includes a pair of connection ports for sensors & peripherals. It provides a simple and affordable solution for customers to monitor the environmental status of racks. Dual LAN PDU dongle supports optional WiFi kit with standards 802.11 g/n/ac. It meet the wireless network requirements and reduce capital expenditure cost as well as Ethernet installation & maintenance.



4.3" Door Mount Display Panel

- Connect to iPDU meter TH2 port
- 1 smart display panel support 2 iPDUs (1-Phase & 3-Phase)
- Displays power, temperature, humidity, smoke or door status
- Alarm
- Viewable while doors in closed position
- · Resistive touchscreen
- · Resolution 480 x 272
- No cut-out / damage required to doors
- · Upgrade racks to smart and stylish look
- · Plug & Play





Smoke Sensor

- Smoke Sensor with 1M or 3M cord
- When smoke alarm is triggered the sensor activates the red LED light and audible alarm sounds continuously



Door Sensor

- Mechanical door sensor with 2M or 4M
- Cost efficient integration into rack

The operating parameters for PDUs should take into account temperature rise within the rack due to the exhaust air from server/ network equipment.

InfraPower PDU supports operation temperature -5 to 60°C for reliable operation in high density rackmount equipment environment. A range of safety devices are offered not only to protect the equipment from overcurrent but also the users from harm when working on racks.



Residual Current Monitor (RCM)

- · Residual current monitoring
- Alerts users to current leaking from IT devices
- Reduces the danger for both the user and IT system



Earth-leakage Circuit Breaker

- · Earth-leakage circuit breaker
- Safety component with high Earth impedance to prevent shock
- Interrupting the circuit if a dangerous voltage is detected



Magnetic Circuit Breaker (MCB)

- · Hydraulic magnetic circuit breaker
- Overload switch
- Designed to prevent accidental on / off operation
- Safety Regulatory: UL / cUL / TUV / CE



Resettable Fuse

- Protected load segments for increased reliability
- Overload reset buttons
- Safety Regulatory :UL / cUL / CSA / TUV / CCC / VDE



Surge Protector

- Enhances the device protection
- Grounds unwanted voltages above the safe threshold
- Surge suppression: 2,700 Joules
- Max surge current: 75,000 Amps
- · Max voltage: 6,000 Volts
- · Response Time: 1 nanosecond



EMI Filter

- · Maintains power stability
- Suppresses conducted interference on a signal/power line
- Line frequency: 50 / 60 Hz
- Attenuation : Up to 50 dB





Vertical OU - Slim Design

For efficient rack mounting, InfraPower vertical PDU steel chassis for single outlet row is designed with a slim profile

- > 54mm for IEC / US NEMA Outlet PDUs
- > 60mm for UK / Schuko Outlet PDUs

Bottom/Top Power Feed

When selecting a rack PDU it is important to consider the power input feed route through the rack enclosure.

As standard InfraPower PDUs are supplied as bottom fed. For installations where the power feed is positioned at the top of the rack, the option of top feed PDUs is available.







Horizontal 1U/ 2U

PDUs are available to be mounted either vertically (0U) or horizontally (1U/2U) inside the rack. Most PDU manufacturers focus on 0U PDUs, with limited options for horizontal PDUs. Austin Hughes offers a wide range of InfraPower 1U/2U rackmount PDUs including custom configurations to meet client needs.

Vertical Button Mounting Kit

Quick and tool-less integration. Designed for global branded racks with key hole type mounting holes. Included with vertical PDU.



Vertical Bracket Mounting Kit

Universal mounting kit supports all IT rack models. Easy integration by mounting the PDU to the rack cable tray. Included with vertical PDU.



Horizontal Rackmount Kit

Design for 19" Rackmount. Included with 1U/2U PDU.



InfraPower Basic PDUs are designed for cost efficient and reliable power distribution in data center.

Metered PDUs (1-Phase MD & 3-Phase MK) allow local power monitoring. User can prevent circuit overloads during equipment installation and plan the capacity based on actual power consumption.

User can meet end to end equipment and management requirements using InfraPower PDUs whilst meeting budget and application demands.

3 Phase MK Metered PDU





MK Meter

Hot-Swappable Meter

····· 1.8" Color LCD Display

- 3 Phase Local Metering
- Circuit / Phase Amp, Volt & kWh
- Billing Grade Meter Accuracy Within +/- 1%

Display Selction Buttons

* 1-Phase MK meter available on request

Meter Reading & Setting









1 Phase MD Metered PDU





MD Meter

- 1 Phase Local Metering
- Ture RMS ammeter
- Circuit Amp Measurement
- Blue light LED

1 Phase / 3 Phase Basic PDU



Basic

- Cost efficient and reliable rack power
- Multiple outlet configurations available
- Colored PDU casings and cord options
- Horizontal or Vertical form factors
- Basic PDUs available in Single Phase or Three Phase





Two PDU's in One Chassis

Traditionally, data center racks are equipped with two PDUs positioned in the rear left and right side respectively.

InfraPower dual feed PDU is designed to house two PDUs in a single chassis which only requires one side installation.

Hence, this facilitates PDU setup and saves valuable rack space. Red + Blue colored PDU layout enables differentiation of the primary and redundant (A&B) power feeds.



Save Network IP Cost

For intelligent PDU, Austin Hughes develops 1 Meter 2 PDUs solution The sophisticated LCD touchscreen meter is integrated in a single chassis but for both primary and secondary PDUs.

The meter not only allows local monitoring for 2 PDUs, but also supports up to 32 cascade levels.

By the patent IP dongle and dual PDU design, only one IP is required to access up to 64 PDUs in a single cascade group.

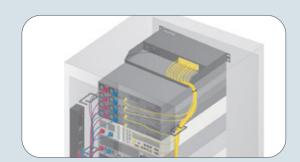


Facilitate Cable Management

Separating power and data cables inside a rack minimizes erratic data transfer as well as EMI and assists in distinguishing between power and data cabling.

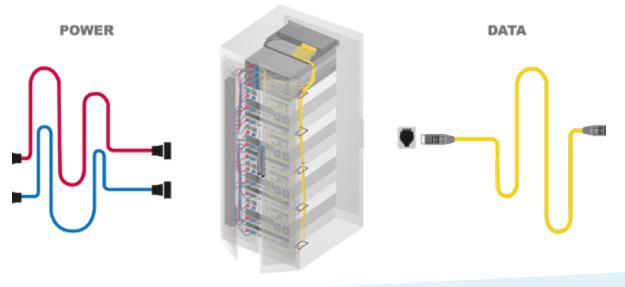
By InfraPower Dual Feed PDU, power & data cable separation is easily

In addition, space-saving design and Red + Blue distinguishable layout contribute to a well-organized rack cabling.



One Side Orientation for Power Cabling

Power and data cables should be kept apart in order to avoid interference. It is a typical practice to isolate power cabling to one side of the rack, whether it is for primary or secondary power connection. InfraPower Dual Feed PDU series offers an efficient, convenient & space saving solution - Primary & Secondary PDUs are integrated to one unit with dual power feed.



1 Phase

110V 15A / 20A / 30A

Inlet (1-PH 110V)

L5-30P

5-30P L5-20P

5-20P <u></u>

5-15P

Outlet n	os	PDU Chassis	
US NEMA		Vertical	Rackmount
24	x 2	~	
20	x 2	~	
16	x 2	~	
12	x 2		~
10	x 2		~
8	x 2		~

230V 16A / 20A / 32A

Outlet nos		PDU Chassis		
C13	C19		Vertical	Rackmount
20	4	x 2	~	
18	6	x 2	~	
16	4	x 2	~	
8	2	x 2		~
24		x 2	~	
20		x 2	~	
16		x 2	~	
12		x 2		~
10		x 2		~
0		0		

208V 20A / 30A

18	6	x 2	~	
16	4	x 2	~	
8	2	x 2		~
24		x 2	~	
20		x 2	~	
16		x 2	~	
12		x 2		~
10		x 2		~
8		x 2		~

Inlet (1-PH 230V)

\odot	60309	32A	4	3 M
8	Open end	20A	2.5	3 M
\subseteq	60309 C20	16A	1.5	3 M

		Cordset	
Inlet (1-PH 208V)	Amp	AWG	length
C L6-30P	30A	10	10 FT
L 6-20P	20A	12	10 FT

PDU drawings available for download : www.austin-hughes.com/resources/rack-pdu-selector



Custom configurations available on request

30A

20A

15A

10

10 FT

10 FT

10 FT















3 Phase

400V	16A / 32A	208V	20A / 30A

Outlet nos		PDU Chassis		
C13	C19		Vetical	Rackmount
30	6	x 2	~	
24	12	x 2	~	
21	3	x 2	~	
18	6	x 2	~	
12	12	x 2	~	
36		x 2	~	
32		x 2	~	
24		x 2	~	

Inlet (3-PH 400V)	Amp	Cordset	
illiet (3-F11 400 V)		mm²	length
60309	63A	10	2 M
60309	32A	4	2 M
60309	16A	1.5	2 M

Inlet (3-PH 208V)	Aman	Cordset	
illiet (3-PH 200V)	Amp	AWG	length
60309	60A	6	6.6 FT
CS8365C	50A	6	6.6 FT
L15-30P	30A	10	6.6 FT
L15-20P L21-20P	20A	12	6.6 FT

cUL & TUV available for selective configurations

PDU Part Code = 0 1 2 3a 3b / 4a 4b / 5a 5b - 6 - 7 / 8 _ 9 / 10 11 - 12 _ 13

0	0 Single or Dual Feed		No Code Required for Single Feed PDU / D = Dual Feed PDU			
1	1 Chassis		V = Vertical 0U / H = Horizontal Rackmount 1U or 2U			
2	Power Phase		No Code Required for Single Phase / P = Three Phase			
За	US NEMA / UK / Schuko / FR	Qty	Refer to Configuration Tables (P.5 for Single Feed PDU ; P.17 for Dual Feed PDU)	No Code Required for Nothing		
3b	Outlet	Туре	US = US NEMA; UK45/135/90/270 = UK; SCH = German Schuko CEE 7/3; FR = French CEE 7/5	No Code Required for Nothing		
4a	IEC C13 Outlet	Qty	Refer to Configuration Tables (P.5 for Single Feed PDU ; P.17 for Dual Feed PDU)	No Code Required for Nothing		
4b	(if any)	Туре	C13 = IEC C13	No code Required for Nothling		
5a	IEC C19 Outlet	Qty	Refer to Configuration Tables (P.5 for Single Feed PDU; P.17 for Dual Feed PDU)	No Code Required for Nothing		
5b	(if any)	Туре	C19 = IEC C19	No code Required for Nothling		
6	Amp Rating		Single Phase 230V:10A/13A/16A/20A/32A; 208V:20A/30A; 110V:15A/20A/30A			
	Amp rating		Three Phase 400V:16A/32A/63A; 208V:20A/30A/50A/60A			
7	7 Model		Basic (No Code Required) / MD / MK / W / Wi / WS / WSi			
8	Safety Device		CR = MCB / F = Resettable Fuse / ELCB = Earth-leakage Circuit Breaker / No Code Required for Nothing			
9	Inlet		Single Phase : EN = 60309 / 6mmEN = 60309 with 6mm² cordset / OE = Open-end / C20 = C20 / UK = UK / SCH = Schuko L630 = L6-30P / L620 = L-620P / L530 = L5-30P / L520 = L5-20P / 520 = L5-20P / 515 = 5-15P			
			Three Phase : EN = 60309 / CS8365C = CS8365C / L2130 = L21-30P / L2120 = L21-20P / L1530 = L15-30P / L1520 = L15-20P			
10	10 Cordset Length		3 = 3M (Standard for Single Phase PDU) / 2 = 2M (Standard for Three Phase PDU) / Custom Length on Request			
11	11 Power Feed Position		B = Bottom Feed (Standard) / T = Top Feed			
12	40 01		Single Feed PDU: 1 = Black (Standard) / 2 = White / 3 = Red / 4 = Blue / 5 = Green / 6 = Orange	/ 7 = Yellow / 8 = Purple		
12	Color		Dual Feed PDU : 1 = Red Layout for PDU-I + Blue Layout for PDU-II (Standard)			
13	Extra Options		SPT = Surge Protector / EMI = EMI Filter / RCM = Residual Current Monitor / No Code Required for Nothing			

Example 1:

Part Code : VP18C13/6C19-32A-WSi/CR_EN/2B-1

Model : WSi iPDU with Circuit Monitoring + Outlet Monitoring + Outlet Switching

Configuration: Single Feed, Vertical, Three Phase, C13 x 18 + C19 x 6, 32A, MCB, 60309 Inlet, 2M Cordset, Bottom Feed, Black Chassis



Example 2:

Part Code : DV40C13/8C19-32A-W/CR_0E/3T-1
Model : W iPDU with Circuit Monitoring

Configuration: Dual Feed, Vertical, Single Phase, (C13x20 + C19x4) x 2, 32A, MCB, Open-end, 3M Cordset, Top Feed,

Standard Dual Feed PDU Chassis Colors (Red Layout for PDU-I + Blue Layout for PDU-II)



Example 3:

Part Code : H8UK90-32A-MD/F_EN/3B-2

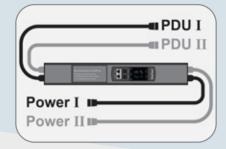
Model : MD Metered PDU

Configuration: Single Feed, Horizontal Rackmount, Single Phase, UK (90°) x 8, 32A, Fuse, 60309 Inlet, 3M Cordset, White Chassis



For legacy sites where basic rack PDUs have been previously installed, Inline Meters provide an ideal upgrade solution to enable real-time power monitoring. InfraPower Inline Meter is the most effective PDU enhancement approach which can be retrofitted to basic PDUs to enable local monitoring plus remote management.

Power Feed - Single or Dual



Display & Mounting - Vertical or Horizontal



Save IP Cost - Max 32 Cascade Levels



Single Phase

Dual Feed Inline Meter

230V Model	Amp	Inlet (Male)	Outlet (Female)
DEW-16A_EN	16A → 16A	16A EN x 2	16A EN x 2
DEW-32A_EN	$32A \rightarrow 32A$	32A EN x 2	32A EN x 2

208V Model	Amp	Inlet (Male)	Outlet (Female)
DEW-20A_L620	20A → 20A	L6-20P x 2	L6-20C x 2
DEW-30A_L630	30A → 30A	L6-30P x 2	L6-30C x 2

110V Model	Amp	Inlet (Male)	Outlet (Female)	
DEW-15A_515	15A → 15A	15A 5-15P x 2	15A 5-15R x 2	
DEW-20A_520	$20A \rightarrow 20A$	20A 5-20P x 2	20A 5-20R x 2	
DEW-20A_L520	$20A \rightarrow 20A$	20A L5-20P x 2	20A L5-20R x 2	
DEW-30A_530	$30A \rightarrow 30A$	30A 5-30P x 2	30A 5-30R x 2	
DEW-30A_L530	$30\text{A} \rightarrow 30\text{A}$	30A L5-30P x 2	30A L5-30R x 2	

^{* 1.5}m cordset standard for inlet & outlet. Specific cordset length available.

Single Feed Inline Meter

230V Model	Amp	Inlet (Male)	Outlet (Female)
EW-16A_EN	16A → 16A	16A EN	16A EN
EW-32A_EN	$32A \rightarrow 32A$	32A EN	32A EN

208V Model	Amp	Inlet (Male)	Outlet (Female)
EW-20A_L620	20A → 20A	L6-20P	L6-20C
EW-30A_L630	$30A \rightarrow 30A$	L6-30P	L6-30C

110V Model	Amp	Inlet (Male)	Outlet (Female)
EW-15A_515	$15A \rightarrow 15A$	15A 5-15P	15A 5-15R
EW-20A_520	$20A \rightarrow 20A$	20A 5-20P	20A 5-20R
EW-20A_L520	$20A \rightarrow 20A$	20A L5-20P	20A L5-20R
EW-30A_530	$30A \rightarrow 30A$	30A 5-30P	30A 5-30R
EW-30A_L530	$30A \rightarrow 30A$	30A L5-30P	30A L5-30R

Three Phase

Dual Feed Inline Meter

400V Model	Amp	Inlet (Male)	Outlet (Female)
DPW-16A_EN	16A → 16A	16A EN x 2	16A EN x 2
DPW-32A_EN	$32A \rightarrow 32A$	32A EN x 2	32A EN x 2
DPW-63A_EN	$63A \rightarrow 63A$	63A EN x 2	63A EN x 2

208V Model	Amp	Inlet (Male)	Outlet (Female)
DPW-20A_L1520	$20A \rightarrow 20A$	20A L15-20P x 2	20A L15-20C x 2
DPW-20A_L2120	$20\text{A} \rightarrow 20\text{A}$	20A L21-20P x 2	20A L21-20C x 2
DPW-30A_L1530	$30A \rightarrow 30A$	30A L15-30P x 2	30A L15-30C x 2
DPW-30A_L2130	$30A \rightarrow 30A$	30A L21-30P x 2	30A L21-30C x 2
DPW-50A_CS8365C	$50A \rightarrow 50A$	50A CS8365 x 2	50A CS8364 x 2
DPW-60A_EN	$60A \rightarrow 60A$	60A EN x 2	60A EN x 2

^{* 1.5}m cordset standard for inlet & outlet. Specific cordset length available.

Single Feed Inline Meter

400V Model	Amp	Inlet (Male)	Outlet (Female)
PW-16A_EN	16A → 16A	16A EN	16A EN
PW-32A_EN	$32A \rightarrow 32A$	32A EN	32A EN

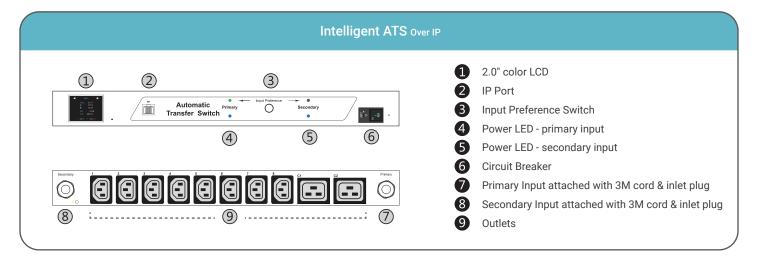
208V Model	Amp	Inlet (Male)	Outlet (Female)
PW-20A_L1520	20A → 20A	L15-20P	L15-20C
PW-20A_L2120	$20A \rightarrow 20A$	L21-20P	L21-20C
PW-30A_L1530	$30A \rightarrow 30A$	L15-30P	L15-30C
PW-30A_L2130	$30A \rightarrow 30A$	L21-30P	L21-30C
PW-50A_CS8365C	$50A \rightarrow 50A$	CS8365	CS8364
PW-60A EN	60A → 60A	60A EN	60A EN

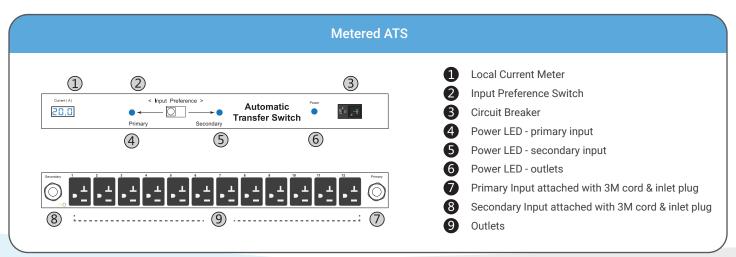
^{**} Bundled Inline Meter mounting kit supports rackmount or vertical mount.

^{**} Bundled Inline Meter mounting kit supports rackmount or vertical mount.

Infra Power® ATS

Most data centers provide power source redundancy in order to ensure critical devices have no power related downtime. Many rackmount IT devices, however, are not designed to take advantage of power redundancy. For single-corded devices, the InfraPower Automatic Transfer Switch (ATS) is a perfect fit to provide power failover. It includes dual power inlets for connection to both a primary power source and a redundant, secondary power source.





ATC Carios	Metered	Monitored	Swit	ched
ATS Series	MD	W	WS	WSi
Outlet Level Measurement Over IP				✓
Outlet ON / OFF Switch Over IP			✓	✓
Input & Circuit Monitoring Over IP		✓	✓	✓
Input Switching Over IP		✓	✓	✓
Input Switching Locally	✓	✓	✓	✓
Local Meter Monitoring	✓	✓	✓	✓
Transfer Time	10 - 16ms	10ms	10ms	10ms
Power Source Switching Notification		✓	✓	✓
Alarm Alert		✓	✓	✓
Reporting & Logs		✓	✓	✓
Free Management Software		✓	✓	✓
Web Based GUI		✓	✓	✓
SNMP Capability V1 / V2 / V3		✓	✓	✓
Single Circuit & Dual Circuit Models	✓	✓	✓	✓
Hydraulic-magnetic Miniature Circuit Breaker (MCB)	✓	✓	✓	✓
Mounting Bracket w/ Cord Retention Tray Included	✓	✓	✓	✓
1-Phase : 230V / 208V / 110V	✓	✓	✓	✓
3-Phase : 400V (16A, 32A) / 208V (20A, 30A)	✓	✓	✓	✓
Outlet Type : US NEMA / C13 / C19 / UK / SCH / FR	✓	✓	✓	✓
IEC309 16A / 32A	✓	✓	✓	✓
L620R / L630R	✓	✓	✓	✓
Outlet # 1 - 24	✓	✓	✓	✓
Custom ATS on Request	✓	✓	✓	✓



Free Management Software IPM-04

IPM-04 is the free, powerful and user friendly management software provided with intelligent ATS. The Administrator can remotely manage the ATS via the web browser. It provides power input switching, ATS monitoring, alarm and reporting functions. The Windows based software consolidates management of max. 50 ATS. Up to 5 concurrent user access is bundled in order to achieve the demand of multi-user requirements in data center operations.

Single Circuit ATS : Monitoring & Input Switching



Dual Circuit ATS : Monitoring & Input Switching



Reporting / Log



Web-based GUI

A web-based GUI is integrated with our intelligent ATS. It is ideal for some users who simply require the power monitoring and input switching over IP.

3rd Party DCIM via SNMP V2 / V3

ATS supports SNMP V2 / V3 integration for clients requiring remote management of the ATS using their existing DCIM (Data Center Infrastructure Management) in order to centralize the management for monitoring power, cooling and environmental factors across facilities and IT systems.

Functions & Features	IPM-04	GUI
No. of ATS support	50	1
Concurrent users	5	1
Input switching over IP	✓	✓
Power source switching notification	~	✓
Input sources detection	✓	✓
Individual outlet switch on / off (WS & WSi)	~	✓
Outlet level measurement (WSi)	✓	✓
Energy consumption (kWh) monitoring	~	✓
Apparent power (kVA) monitoring	✓	✓
Power factor measurement	✓	✓
Voltage (Volt) monitoring	✓	✓
Aggregate current (Amp) monitoring	~	✓
Circuit breaker monitoring	✓	✓
Alarm alert	~	~
Reporting & logs	~	
SNMP V1 / V2 / V3		✓

1U ATS - Single Circuit







WS / WSi iATS

2U ATS - Single Circuit







WS / WSi iATS

IND ATO

2U ATS - Dual Circuit







WS / WSi iATS

|--|

Specifications	MD	W / WS / WSi		
Nominal input voltage		110V / 208V / 230V		
Acceptable input voltage		±10% nominal		
Input frequency	50 / 60Hz			
Inlet	L5-30P / L5-20P / 5-15P / L6-30P / L6-20P / C14 / C20 / 60309 / UK / Open-end			
Outlet	Nema / L620R / L630R / C13 / C19 / 60309 / UK / Schuko / French			
Local meter	3-digital LED current meter	Field replaceable color LCD		
Overload protection	Hydraulic-magnetic Miniature Circuit Breaker (MCB)			
Transfer time	10 - 16ms typical	10ms typical		
Electrical endurance		1 x 10 ^s operations		
Temperature	Operating : -5 to 60°C degree (23 to 140°F degree) / Storage : -25 to 65°C degree (13 to 149°F degree)			
Humidity	Operating : 0	~95%, non-condensing / Storage : 0~95%, non-condensing		

Infra Power® ATS

1U ATS - Single Circuit				Amp			
Outlets	MD ATS	W iATS	WS iATS	WSi iATS	110V	208V	230V
NEMA x 10 NEMA x 12	ATS-H10US ATS-H12US	ATS-H10US-W ATS-H12US-W	ATS-H10US-WS ATS-H12US-WS	ATS-H10US-WSi ATS-H12US-WSi	15 / 20A		
C13 x 8	ATS-H8C13	ATS-H8C13-W	ATS-H8C13-WS	ATS-H8C13-WSi			
C13 x 10	ATS-H10C13	ATS-H10C13-W	ATS-H10C13-WS	ATS-H10C13-WSi			
C13 x 12	ATS-H12C13	ATS-H12C13-W	ATS-H12C13-WS	ATS-H12C13-WSi			
C19 x 6	ATS-H6C19	ATS-H6C19-W	ATS-H6C19-WS	ATS-H6C19-WSi		20A	10 / 16 / 20A
C19 x 8	ATS-H8C19	ATS-H8C19-W	ATS-H8C19-WS	ATS-H8C19-WSi			
C13 x 8 + C19 x 1	ATS-H8C13 / 1C19	ATS-H8C13 / 1C19-W	ATS-H8C13 / 1C19-WS	ATS-H8C13 / 1C19-WSi			
C13 x 8 + C19 x 2	ATS-H8C13 / 2C19	ATS-H8C13 / 2C19-W	ATS-H8C13 / 2C19-WS	ATS-H8C13 / 2C19-WSi			
IEC309 16A x 1	ATS-H1EN16A	ATS-H1EN16A-W	ATS-H1EN16A-WS	ATS-H1EN16A-WSi			16A
L620R x 1	ATS-H1L620R	ATS-H1L620R-W	ATS-H1L620R-WS	ATS-H1L620R-WSi		20A	
UK x 8	ATS-H8UK	ATS-H8UK-W	ATS-H8UK-WS	ATS-H8UK-WSi			10 / 13 / 16 / 20A

2U ATS - Single Circuit					Amp		
Outlets	MD ATS	W iATS	WS iATS	WSi iATS	110V	208V	230V
NEMA x 16 NEMA x 20 NEMA x 24	ATS-H16US ATS-H20US ATS-H24US	ATS-H16US-W ATS-H20US-W ATS-H24US-W	ATS-H16US-WS ATS-H20US-WS ATS-H24US-WS	ATS-H16US-WSi ATS-H20US-WSi ATS-H24US-WSi	15 / 20A		
C13 x 16 C13 x 20 C13 x 24 C19 x 10 C19 x 12 C13 x 16 + C19 x 2 C13 x 16 + C19 x 4	ATS-H16C13 ATS-H20C13 ATS-H24C13 ATS-H10C19 ATS-H12C19 ATS-H16C13 / 2C19 ATS-H16C13 / 4C19	ATS-H16C13-W ATS-H20C13-W ATS-H24C13-W ATS-H10C19-W ATS-H12C19-W ATS-H16C13 / 2C19-W ATS-H16C13 / 4C19-W	ATS-H16C13-WS ATS-H20C13-WS ATS-H24C13-WS ATS-H10C19-WS ATS-H12C19-WS ATS-H16C13 / 2C19-WS ATS-H16C13 / 4C19-WS	ATS-H16C13-WSi ATS-H20C13-WSi ATS-H24C13-WSi ATS-H10C19-WSi ATS-H12C19-WSi ATS-H16C13 / 2C19-WSi ATS-H16C13 / 4C19-WSi		20A	10 / 16 / 20A
Schuko x 8 French x 8	ATS-H8SCH ATS-H8FR	ATS-H8SCH-W ATS-H8FR-W	ATS-H8SCH-WS ATS-H8FR-WS	ATS-H8SCH-WSi ATS-H8FR-WSi			10 / 16 / 20A

2U ATS - Dual Circuit					Amp		
Outlets	MD ATS	W iATS	WS IATS	WSi iATS	110V	208V	230V
NEMA x 16	ATS-H16US	ATS-H16US-W	ATS-H16US-WS	ATS-H16US-WSi			
NEMA x 20	ATS-H20US	ATS-H20US-W	ATS-H20US-WS	ATS-H20US-WSi	30A		
NEMA x 24	ATS-H24US	ATS-H24US-W	ATS-H24US-WS	ATS-H24US-WSi			
C13 x 16	ATS-H16C13	ATS-H16C13-W	ATS-H16C13-WS	ATS-H16C13-WSi			
C13 x 20	ATS-H20C13	ATS-H20C13-W	ATS-H20C13-WS	ATS-H20C13-WSi			
C13 x 24	ATS-H24C13	ATS-H24C13-W	ATS-H24C13-WS	ATS-H24C13-WSi			
C19 x 8	ATS-H8C19	ATS-H8C19-W	ATS-H8C19-WS	ATS-H8C19-WSi		30A	32A
C19 x 10	ATS-H10C19	ATS-H10C19-W	ATS-H10C19-WS	ATS-H10C19-WSi		30A	JZA
C19 x 12	ATS-H12C19	ATS-H12C19-W	ATS-H12C19-WS	ATS-H12C19-WSi			
C13 x 16 + C19 x 2	ATS-H16C13 / 2C19	ATS-H16C13 / 2C19-W	ATS-H16C13 / 2C19-WS	ATS-H16C13 / 2C19-WSi			
C13 x 16 + C19 x 4	ATS-H16C13 / 4C19	ATS-H16C13 / 4C19-W	ATS-H16C13 / 4C19-WS	ATS-H16C13 / 4C19-WSi			
L630R x 1	ATS-H1L630R	ATS-H1L630R-W	ATS-H1L630R-WS	ATS-H1L630R-WSi		30A	
IEC309-16A x 2	ATS-H2EN16A	ATS-H2EN16A-W	ATS-H2EN16A-WS	ATS-H2EN16A-WSi			224
IEC309-32A x 1	ATS-H1EN32A	ATS-H1EN32A-W	ATS-H1EN32A-WS	ATS-H1EN32A-WSi			32A

230V ATS 208V ATS 110V ATS

Inlet	Amp	Cordset		
iiiiet	Allip	mm²	length	
60309	32A	4	3 M	
Open end	20A	2.5	3 M	
ⓒ 60309 ፫ C20	16A	1.5	3 M	
⚠ BS1363 UK	13A	1.5	3 M	
© C14	10A	1.5	3 M	

Inlo	Inlet		Cordset		
IIIIe	١	Amp	AWG	length	
C L	6-30P	30A	10	10 FT	
€ L	6-20P	20A	12	10 FT	

Inlet	Amp	Cordset		
iiilet	Amp	AWG	length	
£5-30P 5-30P	30A	10	10 FT	
€ L5-20P ♣ 5-20P	20A	12	10 FT	
1 5-15P	15A	14	10 FT	

^{**} Customization available on request

Thermal management presents big challenges for today's data centers, chief among which is cooling equipment in enclosed racks. InfraCool intelligent cooling solutions provide appropriate airflow, while helping minimize operational costs associated with data center energy consumption. Make InfraCool an integral part of your rack cooling strategy today.

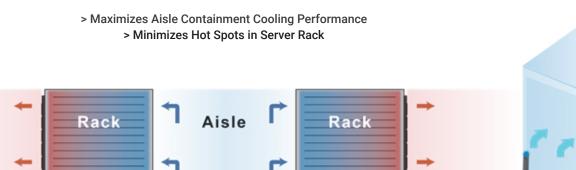








Fan Series	Door Mount Fan Panel	1U Fan Tray			Raised Floor Mount Fan
Intelligent Master	MRF-33.9	×	MRF-1.6	MRF-1.9	WE co. 4
Intelligent Expansion	RF-33.9	×	RF-1.6	RF-1.9	WF-66.4
Basic	F-33.9	F-1.3	F-1.6	F-1.9	F-66.4
Fan Number	9	3	6	9	4 (EC Fan)
Total CFM	972	324	648	972	2172
Airflow	Front Door Cool Air In Hot Air Out		Top Exhaust Equipme Cooling Bottom Cool air i		Front Door Cool Air In
Temp. Port	1		1		2
Temp. Sensor	1		1		2
Intelligent Fan Features:					
16 Daisy Chain Levels	✓		✓		×
Auto Fan Speed Control	✓		~		×
2.8" Touchscreen	×		×		✓
Control Panel	✓		✓		×
Individual Fan On/Off	✓		✓		✓
Alarm Temp. Setting	✓		✓		✓
Unit CFM Setting	✓		✓		×
Temperature Monitoring	✓		~		✓
Fan Status Monitoring	✓		✓		✓
CFM Status Monitoring	✓		~		×



Intelligent Model WF-66.4



Benefits

- ► Allows remote access over IP
- ▶ Remote fan On / Off and status monitoring
- ► Support SNMP V2 / V3 centralized management platforms
- ► Free WF-04-S software for remote fan management
- ▶ 2.8" touchscreen color LCD
- ► Fan status & alarm alert
- Quad EC (Electronically Communicated) fans
- Fan CFM: 543 CFM
- ▶ Unit CFM : 2172 CFM
- ► Bundled with 2 x temperature sensor with 4M wire
- ► Bundled with raised floor mounting kit

Connection Ports (at Side of Fan Unit)



Temperature Sensor (Pair)

- · Bundled with Intelligent Fan
- Magnetic base
- Plug & Play
- 4M wire



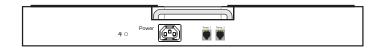
Basic Model F-66.4



Benefits

- Quad EC (Electronically Communicated) fans
- ► Fan CFM: 543 CFM
- ► Unit CFM: 2172 CFM
- ► Adjustable CFM levels
- Unit or individual fan on / off
- ▶ 2 x front temperature LED
- ▶ Bundled with 2 x temperature sensor with 4M wire
- ▶ Bundled with raised floor mounting kit

Connection Ports (at Side of Fan Unit)



Temperature Sensor (Pair)

- · Bundled with Basic Fan
- Plug & Play
- 4M wire



Intelligent Model: Master IP MRF-33.9 Expansion RF-33.9







Benefits

- ▶ 33U door mount without occupying rack space
- ► Easy installation with common tools
- Designed for low noise & high airflow performance
- ► Thin & light weight design only 5 kgs / 11 lbs
- Improves extraction of heat from high density rack
- No. of Fans: 9
- ► Individual Fan CFM: 108 CFM
- ► Unit CFM (approx.): 972 CFM
- Bundle 1 x temperature sensor with 2M wire
- ► Front temperature LED
- ▶ 48V, 24V or 12VDC power option

Extra Benefits by Intelligent Fan Models

- ► Cascade ports for daisy chain up to 16 levels via Cat6 cable
- ▶ 1 x intelligent master fan unit allows access to 16 fan unit levels over internet
- ► Free ICM-02 management software remote access up to 480 fan units
- Auto & manual CFM setting reduces power consumption
- Temperature sensing technology adjusts the fan speeds accordingly
- Unit or individual fan on / off (remote or local)

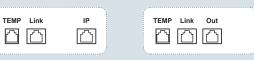




Model	Installation	Airflow	Purpose
MRF-33.9A RF-33.9A F-33.9A	Rear door outside Front door inside	Extract airflow Intake airflow	Exhaust air out from rack Cool air in from aisle
MRF-33.9B RF-33.9B F-33.9B	Rear door inside Front door outside	Extract airflow Intake airflow	Exhaust air out from rack Cool air in from aisle

^{*} Package includes the material of clear polycarbonate plastic to block off the remaining open perforated area of the door to eliminate bypass air.

Connection Ports (at Top of Fan Panel)



TEMP

MRF-33.9 RF-33.9

F-33.9

Temperature Sensor (Pair)

Bundled with Intelligent Fan

- · Magnetic base
- · Plug & Play
- 2M wire



Bundled with Basic Fan

- Plug & Play
- 2M wire

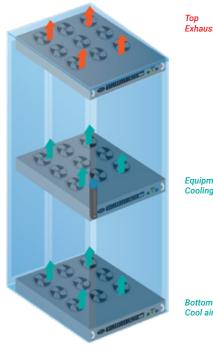


Benefits

- ▶ 1U rackmount
- ▶ Designed for low noise & high airflow performance
- ► Individual Fan CFM: 108 CFM
- ▶ Basic models: 3, 6 or 9 fans / 324, 648 or 972 CFM
- Intelligent models: 6 or 9 fans / 648 or 972 CFM
- ▶ Bundle 1 x temperature sensor with 2M wire
- Front temperature LED
- ▶ 48V, 24V or 12VDC power option

Extra Benefits by Intelligent Fan Models

- ► Cascade ports for daisy chain up to 16 levels via Cat6 cable
- ▶ 1 x intelligent Master IP fan unit allows access to 16 fan unit levels over internet
- ► Free ICM-02 management software remote access up to 480 fan units
- Auto & manual CFM setting reduces power consumption
- Temperature sensing technology adjusts the fan speeds accordingly
- Unit or individual fan on / off (remote or local)



Top Exhaust hot air out

Equipment

Cool air in

Intelligent Model: Master IP MRF-1.9 / 1.6



Available with 9 or 6 Fans

Intelligent Model: Expansion RF-1.9 / 1.6



Available with 9 or 6 Fans

Basic Model: F-1.9 / 1.6 / 1.3



Available with 9, 6 or 3 Fans

Connection Ports (at Front of Fan Unit)



MRF-1.9 / MRF-1.6









RF-1.9 / RF-1.6

F-1.9 / F-1.6 / F-1.3

Temperature Sensor (Pair)

Bundled with Intelligent Fan

- Magnetic base
- Plug & Play
- 2M wire



Bundled with Basic Fan

- Plug & Play
- 2M wire



To maintain optimum operational conditions in data centers, getting instant notification of environmental fluctuations is vital. InfraGuard offers a wide range of sensors for complete environmental monitoring of IT racks.

EC-300M - Master Control Box (1st Level)







Temp. + Humid. Sensor



- One sensor for temperature & humidity
- Low profile and light weight design with a magnetic base for easy affixing to rack

Part no. : IG-TH01-2M IG-TH01-4M

with 2M cord with 4M cord

Temp. Sensor



- · Detection for temperature
- Low profile and light weight design with a magnetic base for easy affixing to rack

Part no.:

IG-T01-2M with 2M cord
IG-T01-4M with 4M cord

Water Sensor



- · Fluid leakage detection
- 5M rope round the rack bottom to detect any fluid flowing to the rack area
- IP65 cable joint connectors provided

Part no. :

IG-W01-3M with 3M cord

Smoke Sensor



· Safely operated smoke detection

Part no.: IG-S01-1M IG-S01-3M

with 1M cord with 3M cord

Shock Sensor



• Alert the physical vibration on the rack

Part no.:

IG-V01-1M with 1M cord IG-V01-3M with 3M cord

LED Beacon



• Highly visible for alerting user to alarm status

Part no.:

IG-FB03-1M with 1M cord With 3M cord with 3M cord

Inductive Door Sensor



- · Light weight, mini size & adhesive
- No custom cutting required on doors
- Easy for existing rack retrofit or integration to new rack

Part no.:

IG-DSI-2M with 2M cord IG-DSI-4M with 4M cord

Mechanical Door Sensor



- Low cost
- Precise
- · Cost efficient integration to new rack
- Custom cutting required on door

Part no.:

IG-DSW-2M with 2M cord IG-DSW-4M with 4M cord

LED Light Bar

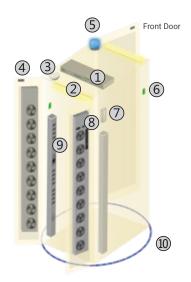


- Auto ON / OFF by door sensor detection
- Manual ON / OFF by software remote
- · Magnetic base for easy affixing to rack
- Dimension (W x D x H): 20 x 300 x 12 mm

Part no.:

CLB-IX-002 with 2M cord
CLB-IX-003 with 3M cord

One Box One Rack



	Item	Rack
1	EC Box	1
2	LED Light Bar	2
3	Smoke Sensor	1
4	Door Sensor	2
6	Flashing LED Beacon	1
6	Temp. & Humid. Sensor	2
7	Shock Sensor	1
8	Fan Unit	2
9	PDU	2
10	Water Sensor	1

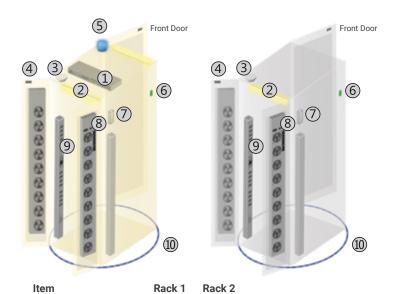
- EC 300M as the 1st level Master IP EC box
- The EC box can be cascaded up to 16 levels
 Only 1 x IP for 16 x EC box remote access



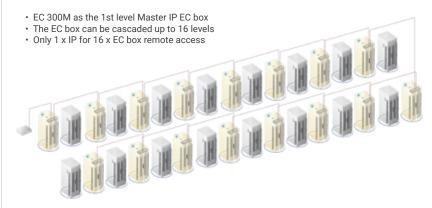
Free Software IGM-03

- · Supports 30 IP addresses
- 480 EC boxes & 480 IT server racks
- Thousands of rack sensors $\&\,1920$ iPDUs $\&\,iFans$

One Box Two Rack



U	EC Box	1	-	
2	LED Light Bar	1	1	
3	Smoke Sensor	1 *	1 *	
4	Door Sensor	2	2	
5	Flashing LED Beacon	1	-	
6	Temp. & Humid. Sensor	1	1	
7	Shock Sensor	1 *	1 *	
8	Fan Unit	2	2	
9	PDU	2	2	
10	Water Sensor	1	1	* either smoke sensor or shock sensor



Free Software IGM-03

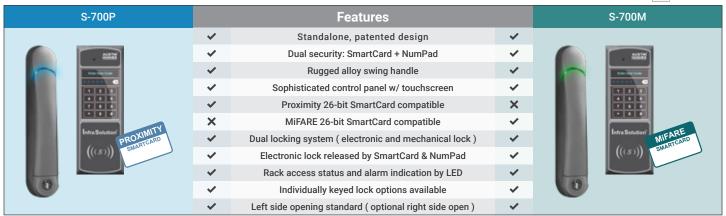
- · Supports 30 IP addresses
- 480 EC boxes & 960 IT server racks
- Thousands of rack sensors & 1920 iPDUs & iFans

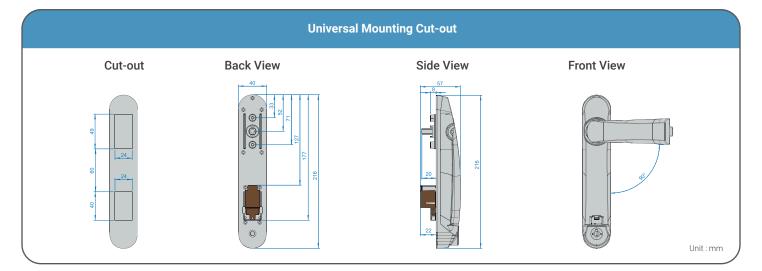


REACH

To satisfy high level data center security requirements, Austin Hughes has launched a standalone rack access solution with alloy swing handles & 2.8" touchscreen control panel. The InfraSolution S-700 series provides an innovative yet affordable solution for secure rack access in 21st century data centers.







Handle LED



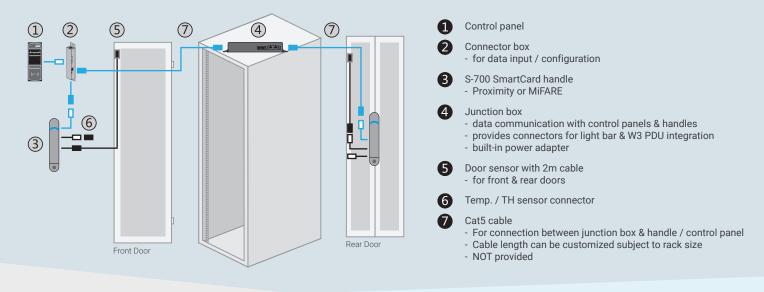
Two-factor Authentication - Dual Security



Control Panel



Installation Diagram



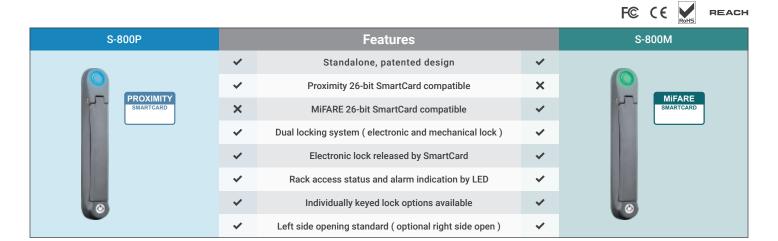
Software

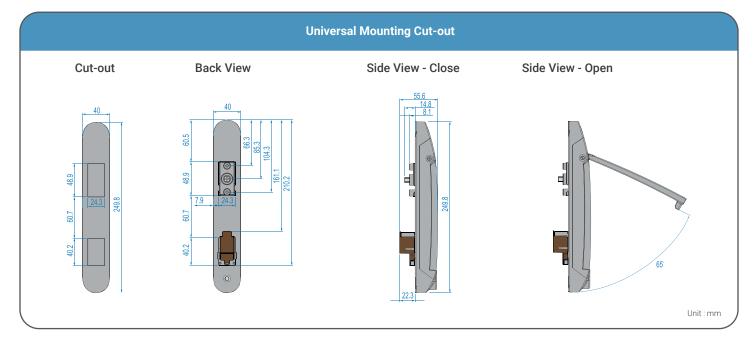
Via the Free utility (ISU-01), administrators can change admin / user passcodes and assign smartcards. A maximum of 50 user card credentials can be managed per control panel. Setup is easy via the optional data input cable (ISW-USB-1.8).



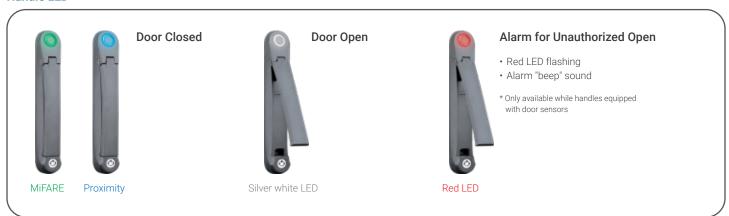
The patented S-800 SmartCard handle is designed for total rack access control and management.

For 100% accurate detection of exactly which door opened, InfraSolution S-800 is equipped with high quality, durable, precision door sensors for both doors.



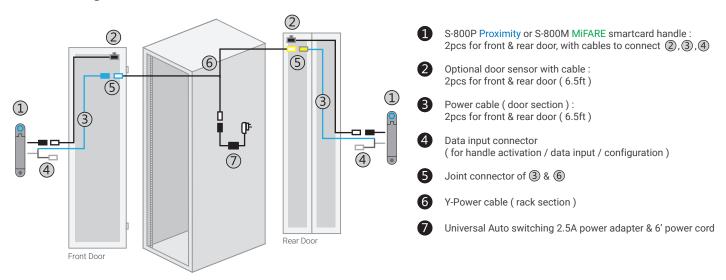


Handle LED



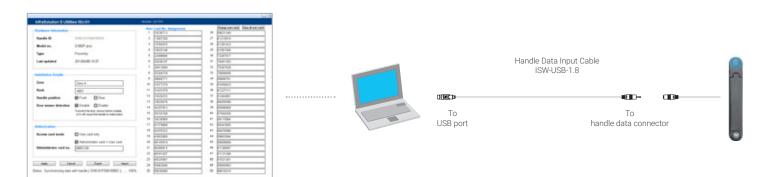
Infra Solution S Standalone Access Control

Installation Diagram



Software

Via the Free utility (ISU-01), administrators can change admin / user passcodes and assign smartcards. A maximum of 50 user card credentials can be managed per control panel. Setup is easy via the optional data input cable (ISW-USB-1.8).



Door Sensor for S-700 & S-800

IR Door Sensor (Pair) Part no.: S-DIR



- No custom cutting required on doors
- Light weight
- Magnetic base for easy setup
- Mini size (33 x 19 x 7 mm)
- Reflective label x 2 bundled
- With 2m cord

Inductive Door Sensor (Pair)

Part no.: S-DSI



- No custom cutting required on doors
- Light weight / adhesive
- Easy for existing rack retrofit
- Mounting bracket bundled
- Mini size (32.5 x 12.2 x 9.2 mm)
- With 2m cord

Mechanical Door Sensor (Pair)

Part no.: S-DSW



- Custom cutting required on doors
- Low cost / precise
- Cost efficient integration to new rack
- Size (52 x 22.5 x 30.75 mm)
- With 2m cord



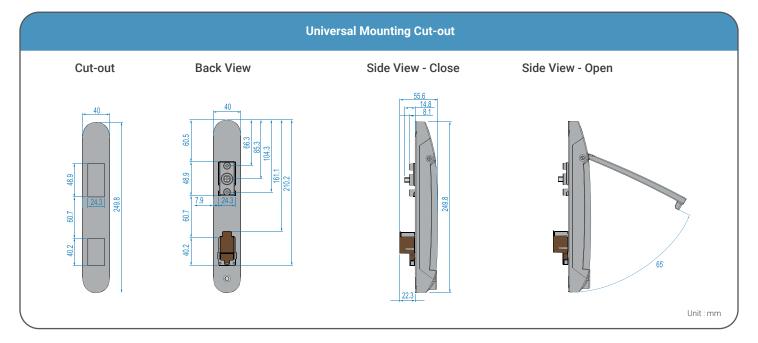
The patented X-800 SmartCard handle is designed for total rack access control and management.

The X-2000 control box, designed for rack SmartCard Access + PDU/Fan/Environmental Management, consolidates the smartcard access components and management of other integrated rack devices such as smart PDUs, cooling fans and environmental sensors in a single rack appliance. To facilitate centralized management, all control boxes can be connected via wired networks.

For 100% accurate detection of exactly which door opened, InfraSolution X-800 is equipped with high quality, durable, precision door sensors for both doors.



X-800P	Features			X-800M
	~	Networked, patented design	~	
	~	Proximity 26-bit SmartCard compatible	×	
PROXIMITY SMARTCARD	×	MiFARE 26-bit SmartCard compatible	~	MIFARE SMARTCARD
	~	Dual locking system (electronic and mechanical lock)	~	
	~	Electronic lock released by SmartCard	~	
	~	Rack access status and alarm indication by LED	~	
	~	Individually keyed lock options available	~	
	~	Left side opening standard (optional right side open)	~	



Handle Unlocking

The InfraSolution X-800 handle offers three ways to release the lock - Software Remote, SmartCard or Mechanical Key.

By Software Remotely



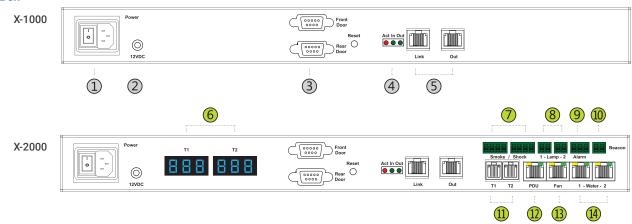




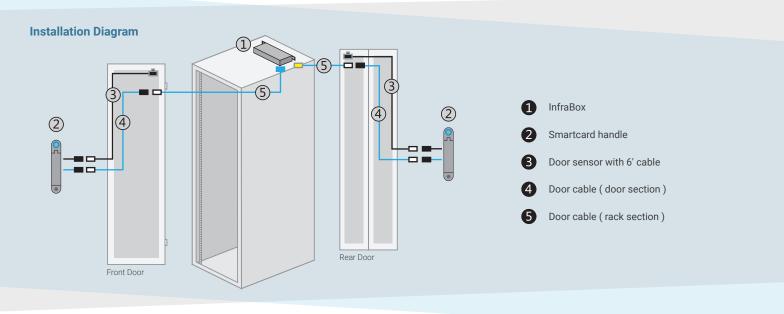




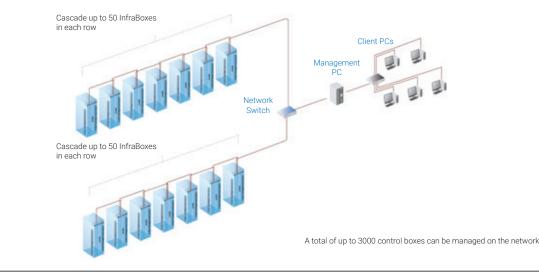
Control Box



- 1 Power input
- 2 Dual power input (option)
- 3 Door cable DB-9 connector x 2 Connect to the front and rear handle
- (4) "Act in Out" LED
- (5) Daisy chain RJ45 port x 2 (Link & Out)
- 6 Temp. LED display x 2
- 7 Smoke / Shock sensor port x 2
- 8 LED Light Bar port x 2
- 9 Port for 3rd party alarm board x 1
- 10 LED beacon port x 1
- 11) Temp. & Humid. sensor port x 2
- 12 PDU port x 1 (RJ-45, Daisy Chain up to 4 PDUs)
- 13) Fan unit port x 1 (RJ-45, Daisy chain up to 2 fan units)
- Water sensor port x 2



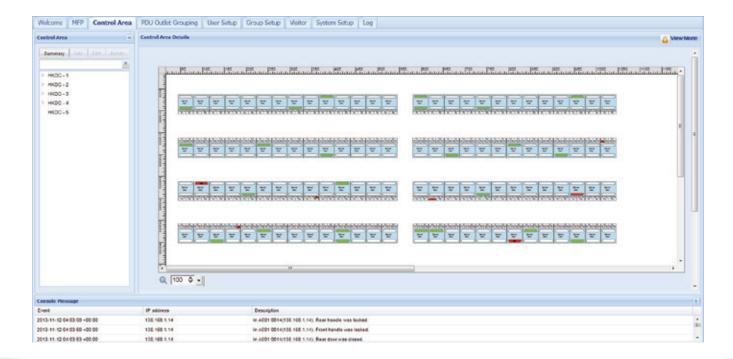
InfraBox Connection Diagram





InfraSolution X Manager X-ISM is a LICENSED rack management software to monitor up to 3000 racks remotely.

Each InfraBox connects a pair of Smartcard handles for secure rack access control and a variety of sensors to provide an integrated environmental monitoring solution. To enhance the functionality, up to 1920 PDUs and 960 Fan Units can be monitored through InfraSolution X Manager. To meet the requirements of today's multi-user, multi-tasking data center operations, up to 100 concurrent users can access the management software remotely.

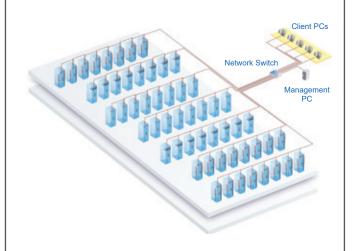


Features		X-ISM
Capacity	InfraBox	3000
	Concurrent Users	100
System Setup	Backup/Restore Options	~
	Time Rules	✓
	Alarm Mail Server Settings	✓
	Audio and Visual Alarm Output Setting	✓
Cabinet Overview Door	Door Status, PDUs, Sensor & Fan Units	✓
	Remotely Open Door	✓
	Last Door Open & Closed Record	✓
Sensor/Peripheral	Status Monitoring	~
	Temp-Humid Alarm Threshold Settings	✓
PDU	Energy Consumption kWh/Amp Monitoring	✓
	Outlet Level Measurement	✓
	PDU Outlet Scheduling	✓
	Outlet ON/OFF Switching	✓
	Amp Alarm Threshold Settings	✓
	Amperage High/Low Alert Threshold Settings	✓
	Temp-Humid Monitoring	✓
Fan Unit	CFM & Temp. Monitoring	~
	Unit CFM (Fan Speed) Settings	✓
	Auto CFM Control Settings	✓
	Individual Fan Kit ON/OFF	~
	Fan Unit ON/OFF	~
Chart/Event/Reporting	System & Device Event Reporting	~
	Temp-Humid Historical Trending Charts	✓



Application 1 - Data Center

Via cascading (up to 50 per group) through a network switch, InfraSolution X-800 can be scalable up to 3000 racks. Numerous InfraBoxes can coexist in the same network. Users can manage and remotely access all racks under a centralized and user-friendly GUI.

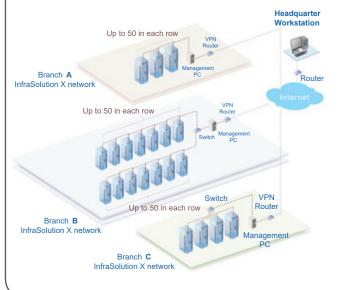


- · Connect the 1st InfraBox in each daisy chain to the network switch
- · Connect the management PC and client PCs via the network switch
- · Up to 3000 Infraboxes/Racks

Application 3 - Branches

For a global or expanding company, it is vital to be able to remotely access and monitor the network of their nationwide or worldwide branches. InfraSolution X provides an ideal solution to keep an eye on rack access security and environmental conditions in remote or branch locations from a central headquarters.

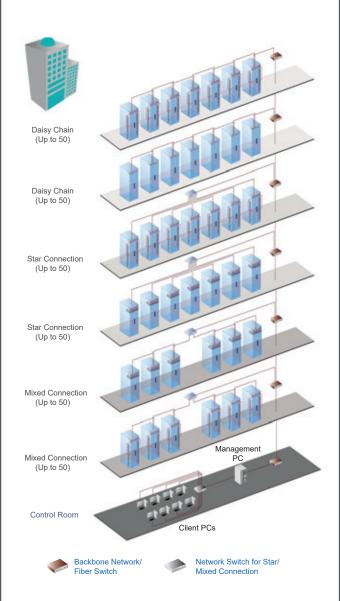
An InfraSolution X software license is required for each remote site/ management PC



Application 2 - Intelligent Building

It is essential for multi-storey, intelligent smart buildings to use centralized management for control of mechanical and electrical systems such as security, power, ventilation, and lighting.

The InfraSolution X system allows equipment to be distributed throughout a building by simply deploying over an Ethernet network. To keep capital costs down, InfraSolution X can also be cascaded between boxes - up to 100m over a Cat5/6 cable. Signal weakness issues, over longer distances between InfraBoxes, can be solved by inserting network hubs with repeater functionality.



Setup Scenario integrated with the Intelligent Building

- Connect the InfraSolution X network on each floor via the network ethernet / fiber switch
- Up to 3000 Infraboxes/Racks















4K 60Hz KVM

- 4K KVM with 8 ports in 1U
- KVM cables support DP & HDMI video input
- USB hub ports share peripheral devices among computers
- Local console & KVM ports support 4K, 2K and 1080p resolutions
- Port switching via front button & keyboard hotkeys
- Multi platform, hot pluggable, no software or drivers required

2K KVM

- 2K KVM with 8 ports in 1U
- KVM cables support DVI-D & HDMI video input
- Local console & KVM ports support 2K and 1080p resolutions
- Port switching via front button & keyboard hotkeys
- Multi platform, hot pluggable, no software or drivers required

DVI-D KVM

- DVI-D KVM with 12 ports in 1U
- Port switching via front button & keyboard hotkeys
- Multi platform, hot pluggable, no software or drivers required

Combo Cat6 KVM

- Cat6 KVM with 8, 16 or 32 ports in 1U
- Cat6 dongles available for USB-C, DP, HDMI, DVI-D or VGA video input
- IP / Remote console options
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required
- Cascade up to 8 KVM switches to control as many as 256 servers

Matrix Cat6 KVM

- Cat6 KVM with 16 or 32 ports in 1U
- Simultaneous & independent access for up to 4 consoles
- Cat6 dongles available for USB Type-C, DP, HDMI, DVI-D or VGA video input
- IP / Remote console options
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required
- · Cascade up to 8 KVM switches to control as many as 256 servers

Combo DB-15 KVM

- DB-15 KVM with 8 or 16 ports in 1U
- IP / Remote console options
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required
- Cascade up to 8 KVM switches to control as many as 128 servers

USB Hub DB-15 KVM

- DB-15 KVM with 8 or 16 ports in 1U
- IP / Remote console options
- USB hub ports share peripheral devices among computers
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required



KVM Series	4K 60 _{Hz}	2K	DVI-D	Combo Cat6	Matrix Cat6	Combo DB-15	USB Hub DB-15
KVM Port	HDMI + USB	HDMI + USB	DVI-D + USB	RJ-45	RJ-45	DB-15	DB-15
Server-side Video	DP / HDMI	DVI-D / HDMI	DVI-D	USB-C DP / HDMI DVI-D / VGA	USB-C DP / HDMI DVI-D / VGA	VGA	VGA
Server-side KB / MS	USB	USB	USB	USB	USB	USB / PS2	
Number of Ports	8	8	12	32 / 16 / 8	32 / 16	16 / 8	16/8
Max. Resolution - 16 : 9 16 : 10 4 : 3	3840 x 2160 1920 x 1200 1600 x 1200	2560 x 1440 1920 x 1200 1600 x 1200	1920 x 1080 1920 x 1200 1600 x 1200				
Server-side Audio	Digital (DP / HDMI)	Digital (HDMI)	Stereo				
USB Device Port	2 x USB 2.0						2 x USB 2.0
Max. Distance (to Server)	2M	2M	4.5M	40M	40M	4.5M	4.5M
Cascade Levels				8	8	8	
Simultaneous Users (max. 4)					~		
On-Screen Menu				~	~	~	~
				~	~	~	~
DC Power Option: 12V / 24V / 48V / 125V	~	~	~	~	~	~	~
Multi Lingual OSD Menu				~	~	~	~
1U Standalone KVM	~	~	~	~	~	~	~
KVM integration to LCD Console Drawer	~	~	~	~	~	~	~



4K 60Hz KVM

CK-6P

CK-6H



DP KVM cable 6 ft



HDMI KVM cable 6 ft

CH-6D



DVI-D KVM cable

2K KVM





CH-6H

HDMI KVM cable 6 ft

DVI-D KVM CI - 6 / 15



DVI-D KVM cable 6 / 15 ft

DB-15 KVM CB-6/10/15



VGA KVM cable 6/10/15ft

Cat6 KVM Dongle

DG-100C

DG-100P

DG-100H

HDMI-USB dongle

DG-100SD



DVI-USB dongle



DG-100S

VGA-USB dongle



RKP117 / 119

1U 17" / 19" LCD Console Drawer

Benefits

- ▶ 1U 17" / 19" LCD console drawer
- ▶ 1280 x 1024 native resolution
- ▶ 16.7M colors
- ▶ 104-key keyboard with either touchpad or trackball
- ► Short depth design of 470mm and 510mm respectively
- One man installation design
- Modern, molded front handle with two point lock

Options

- DVI-D / HDMI 1.2 video input
- 3G / HD / SD-SDI Broadcast-grade input
- S-Video + Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- Touchscreen: Capacitive 1-pt / Resistive 1-pt
- MAC or SUN Micro keyboard options



N117 / 119

1U 17" / 19" LCD Console Drawer

Benefits

- ▶ 1U 17" / 19" LCD console drawer
- ▶ 1280 x 1024 native resolution
- ▶ 16.7M colors
- ▶ 104-key keyboard with either touchpad or trackball
- Short depth design of 500mm
- One man installation design
- Modern, molded front handle with two point lock

Options

- DVI-D / HDMI 1.2 video input
- S-Video + Composite (BNC)
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options



D117 / 119

1U Dual Slide 17" / 19" LCD Console Drawer

Benefits

- ▶ 1U 17" / 19" LCD console drawer
- Dual slide LCD and keyboard slide independently
- ▶ 1280 x 1024 native resolution
- ▶ 16.7M colors
- 104-key keyboard with touchpad
- One man installation design
- Modern, molded front handle with two point lock

Options

- DVI-D / HDMI 1.2 video input
- S-Video + Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options

KVM Kit Options

- 2K KVM 8 ports (Resolution related to LCD specification)
- DVI-D KVM 12 ports

- Combo Cat6 KVM 8 / 16 / 32 ports IP & Remote options
- Matrix Cat6 KVM 16 / 32 ports IP & Remote options

- Combo DB-15 KVM 8 / 16 ports IP & Remote options
- USB-Hub DB-15 KVM 8 / 16 ports IP & Remote options



RP-717 / 819 / 920

7U / 8U / 9U Display Panel

- ▶ 7U 17" / 8U 19" / 9U 20" LCD display panel
- 1280 x 1024 native resolution (RP-717 / 819)
- 1600 x 1200 native resolution (RP-920)
- 16.7M colors
- DVI-D + VGA video input

Options

- HDMI 1.2 video input
- 3G / HD / SD-SDI Broadcast-grade input
- S-Video + Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Capacitive 1-pt (RP-717 / 819) Resistive 1-pt
- 17", 19" Sunlight readable panel



RP-W819QD

8U 19" Widescreen Quad Display Panel

- ▶ 8U 19" widescreen LCD Quad display panel
- ▶ 1440 x 900 native resolution
- ▶ 16.7M colors
- ▶ VGA + Quad Display (Composite BNC x 4) video input

• DC power: 12V / 24V / 48V / 125V



RP-117 / 119

1U 17" / 19" Display Drawer

Benefits

- ▶ 1U 17" / 19" LCD display drawer
- ▶ 1280 x 1024 native resolution
- ▶ 16.7M colors
- ► DVI-D + VGA video input
- Short depth design of 500mm
- One man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.2 video input
- S-Video + Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- Touchscreen: Capacitive 1-pt / Resistive 1-pt
- 17", 19" Sunlight readable panel



RP-120

1U 20" Display Drawer

- ▶ 1U 20" LCD display drawer
- ▶ 1600 x 1200 native resolution
- ▶ 16.7M colors
- DVI-D + VGA video input
- One man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.2 video input
- S-Video + Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V





F117

1U 17" FHD LCD Console Drawer

Benefits

- ▶ 1U 17" LCD console drawer
- 1920 x 1080 native resolution
- 16.7M colors (8-bit)
- DVI-D + VGA video input / USB KB / MS
- 104-key keyboard with either touchpad or trackball
- Short depth design of 460mm
- One man installation design
- New enhanced aesthetics with molded front handle

- Front USB hub port for device access
- HDMI 1.4 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options
- 2-post rack mounting brackets (ORB-2.1)
- Touchscreen: Resistive 1-pt
- 17" Sunlight readable panel



F1417

1U 17" Ultra Short Depth FHD LCD Console Drawer

Benefits

- ▶ 1U 17" LCD console drawer
- ▶ 1920 x 1080 native resolution
- 16.7M colors (8-bit)
- DVI-D + VGA video input / USB KB / MS
- Ideal for open rack / short depth rack
- 104-key keyboard with either touchpad or trackball
- Ultra Short depth design of 400mm
- One Man installation design
- Modern, molded front handle with two point lock

- Front USB hub port for device access
- HDMI 1.4 / DP 1.0 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Composite (BNC)
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options
- Touchscreen: Resistive 1-pt



F121

1U 21" FHD Large LCD Console Drawer

Benefits

- 1U 21" LCD console drawer
- 1920 x 1080 native resolution
- 16.7M colors
- DVI-D + VGA video input / USB KB / MS
- 104-key keyboard with either touchpad or trackball
- One man installation design
- Modern, molded front handle with two point lock

Model (left side open)	Model (right side open)
F121	F121R

Options

- · Front USB hub port for device access
- HDMI 1.3 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options

KVM Kit Options

- 2K KVM (Resolution related to LCD specification)
- DVI-D KVM 12 ports

- Combo Cat6 KVM 8 / 16 / 32 ports IP & Remote options
- Matrix Cat6 KVM 16 / 32 ports IP & Remote options

- Combo DB-15 KVM 8 / 16 ports IP & Remote options
- USB-Hub DB-15 KVM 8 / 16 ports IP & Remote options





RP-F617

6U 17" FHD Display Panel

Benefits

- ▶ 6U 17" LCD display panel
- 1920 x 1080 native resolution
- 16.7M colors (8-bit)
- ► DVI-D + VGA video input

Options

- HDMI 1.3 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Resistive 1-pt
- 17" Sunlight readable panel



RP-F821

8U 21" FHD Display Panel

Benefits

- ▶ 8U 21" LCD display panel
- ▶ 1920 x 1080 native resolution
- 16.7M colors
- DVI-D + VGA video input
- ► PIP Sub-screen & PBP Dual-screen viewing efficiency

- HDMI 1.3 video input
- 3G / HD / SD-SDI Broadcast-grade input
- S-Video + Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Capacitive 1-pt / Resistive 1-pt
- 21" Sunlight readable panel





1U 17" FHD Display Drawer

Benefits

- ▶ 1U 17" LCD display drawer
- ▶ 1920 x 1080 native resolution
- ▶ 16.7M colors (8-bit)
- ► DVI-D + VGA video input
- Short depth design of 480mm
- One man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.3 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- Touchscreen: Resistive 1-pt
- 17" Sunlight readable panel



RP-HF117

1U 17" FHD Sunlight Readable Display Drawer

- ▶ 1U 17" LCD display drawer
- ▶ 1920 x 1080 native resolution
- ▶ 16.7M colors (8-bit)
- 1000 cd/m² brightness
- DVI-D + VGA video input
- Short depth design of 480mm
- One Man installation design
- Modern, molded front handle with two point lock

- HDMI 1.3 / DP 1.0 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Composite (BNC)
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- Touchscreen: Resistive 1-pt





X117

1U 16.2" WUXGA LCD Console Drawer

Benefits

- ▶ 1U 16.2" LCD console drawer
- ▶ 1920 x 1200 WUXGA native resolution
- ▶ 16.7M colors (8-bit)
- HDMI 1.4 + DVI-D + VGA video input / USB KB / MS
- ▶ 104-key keyboard with either touchpad or trackball
- Short depth design of 480mm
- One Man installation design
- New enhanced aesthetics with molded front handle

Options

- Front USB hub port for device access
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- 2-post rack mounting brackets (ORB-2.1)
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options



DX117

1U Dual Slide 16.2" WUXGA LCD Console Drawer

Benefits

- ▶ 1U 16.2" LCD console drawer
- Dual slide LCD and keyboard slide independently
- ▶ 1920 x 1200 WUXGA native resolution
- 16.7M colors (8-bit)
- DVI-D + VGA video input / USB KB / MS
- 104-key keyboard with touchpad
- One Man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.4 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options



X124

1U 24" WUXGA Large LCD Console Drawer

Benefits

- ▶ 1U 24" LCD console drawer
- ▶ 1920 x 1200 WUXGA native resolution
- ▶ 16.7M colors
- DVI-D + VGA video input / USB KB / MS
- ▶ 104-key keyboard with either touchpad or trackball
- ► One Man installation design
- Modern, molded front handle with two point lock

Model (left side open)	Model (right side open)
F121	F121R

Options

- Front USB hub port for device access
- HDMI 1.3 video input
- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options

KVM Kit Options

- 2K KVM 8 ports (Resolution related to LCD specification)
- DVI-D KVM 12 ports

- Combo Cat6 KVM 8 / 16 / 32 ports IP & Remote options
- Matrix Cat6 KVM 16 / 32 ports IP & Remote options

- Combo DB-15 KVM 8 / 16 ports IP & Remote options
- USB-Hub DB-15 KVM 8 / 16 ports IP & Remote options





RP-X617

6U 16.2" WUXGA Display Panel

Benefits

- ► 6U 16.2" LCD display panel
- ▶ 1920 x 1200 WUXGA native resolution
- 16.7M colors (8-bit)
- ► HDMI 1.4 + DVI-D + VGA video input
- ► PIP Sub-screen & PBP Dual-screen viewing efficiency
- ▶ Built-in dual stereo speakers

- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Resistive 1-pt





9U 24" WUXGA Display Panel

Benefits

- ▶ 9U 24" LCD display panel
- ▶ 1920 x 1200 WUXGA native resolution
- ▶ 16.7M colors
- ► HDMI 1.3 + DVI-D + VGA video input
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency

- 3G / HD / SD-SDI Broadcast-grade input
- Audio input & output
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Resistive 1-pt





1U 16.2" WUXGA Display Drawer

Benefits

- ▶ 1U 16.2" LCD display drawer
- ▶ 1920 x 1200 WUXGA native resolution
- ► 16.7M colors (8-bit)
- ► DVI-D + VGA video input
- ► Short depth design of 480mm
- One Man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.4 video input
- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- Touchscreen: Resistive 1-pt





K117

1U 17" 4K LCD Console Drawer

Benefits

- ▶ 1U 17" 4K LCD console drawer
- 3840 x 2160 native resolution
- 1920 x 1080 & 1920 x 1200 resolutions support
- 16.7M colors (8-bit)
- Display port 1.2 video input / USB KB / MS
- 104-key keyboard with either touchpad or trackball
- Built-in dual stereo speakers
- Short depth design of 480mm
- One man installation design
- New enhanced aesthetics with molded front handle

- · Front USB hub port for device access
- HDMI 2.0 video input
- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- · MAC or SUN Micro keyboard options
- Touchscreen: Resistive 1-pt



K1417

1U 17" Ultra Short Depth 4K LCD Console Drawer

Benefits

- ▶ 1U 17" 4K LCD console drawer
- 3840 x 2160@60Hz native resolution
- 1920 x 1080 & 1920 x 1200 resolution support
- 16.7M colors (8-bit)
- Display port 1.2 video input / USB KB/MS
- ► Ideal for open rack / short depth rack
- ▶ 104-key keyboard with either touchpad or trackball
- Ultra Short depth design of 400mm
- ► Built-in dual stereo speakers
- One man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 2.0 video input
- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options
- Touchscreen: Resistive 1-pt



K123

1U 23" 4K Large LCD Console Drawer

- ▶ 1U 23" 4K LCD console drawer
- 3840 x 2160 native resolution
- 1920 x 1080 & 1920 x 1200 resolutions support
- 1.07B colors (10-bit)
- Display port 1.2 video input / USB KB / MS
- 104-key keyboard with either touchpad or trackball
- ▶ Built-in dual stereo speakers
- One man installation design
- Modern, molded front handle with two point lock

Model (left side open)	Model (right side open)			
K123	K123R			

- Front USB hub port for device access
- HDMI 2.0 video input
- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- MAC or SUN Micro keyboard options

KVM Kit Options

4K 60Hz KVM 8 ports





RP-K617

6U 17" 4K Display Panel

Benefits

- ▶ 6U 17" 4K LCD display panel
- 3840 x 2160 native resolution
- 1920 x 1080 & 1920 x 1200 resolution support
- 16.7M colors (8-bit)
- ▶ Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- ► PIP Sub-screen & PBP Dual-screen viewing efficiency
- Built-in dual stereo speakers

Options

- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Projected Capacitive 10-pt Resistive 1-pt





9U 23" 4K Display Panel

Benefits

- ▶ 9U 23" 4K LCD display panel
- ▶ 3840 x 2160 native resolution
- 1920 x 1080 & 1920 x 1200 resolution support
- 1.07B colors (10-bit)
- ► Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
- ▶ Built-in dual stereo speakers

- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- MCS Multi display OSD controller
- MIL-type or lockable connector
- Touchscreen: Projected Capacitive 10-pt Infrared 6-pt Resistive 1-pt



RP-K117

1U 17" 4K Display Drawer

Benefits

- ▶ 1U 17" 4K LCD display drawer
- ▶ 3840 x 2160 native resolution
- ▶ 1920 x 1080 & 1920 x 1200 resolution support
- ▶ 16.7M colors (8-bit)
- ► Display port 1.2 video input
- Built-in dual stereo speakers
- Short depth design of 480mm
- One man installation design Modern, molded front handle with two point lock

Options

- HDMI 2.0 video input
- 3G / HD / SD-SDI Broadcast-grade input
- DC power: 12V / 24V / 48V / 125V
- Touchscreen: Resistive 1-pt



2U Multi-display Console Drawer



Benefits

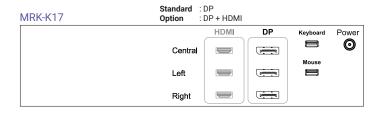
- ▶ 2U 22" short depth design
- Light weight only 46.2 lbs / 21 kgs
- Rugged construction for mobility & durability
- Built-in solid bearing slide rails
- Built-in dual stereo speaker (per display)
- ► Five LED backlit display selections (4K, WUXGA, FHD 60Hz, FHD 144Hz, 4:3)
- DVI-D + VGA video input for WUXGA, FHD & 4:3 (per display)
- Display port 1.2 video input for 4K (per display)
- ▶ 104-key keyboard with either touchpad or trackball (PS2 / USB)
- ► Fits 24" ~ 36" rack via adjustable mounting brackets

Options

- DC power: 12V / 24V / 48V / 125V
- 3G / HD / SD-SDI Broadcast-grade input
- Touchscreen for 17" 4K, 16.2" WUXGA, 17" FHD & 19" 4:3
- MAC or SUN Micro keyboard options available
- Front USB hub port for device access
- HDMI video input
- Add-on USB Selector

Models LH mounted RH mounted |4K|| MRK-K17-2L MRK-K17-3 MRK-K17-2R 1080p **60** Hz MRK-F17-2L MRK-F17-3 MRK-F17-2R 1080p **144** Hz MRK-MF17-2L **MRK-MF17-3** MRK-MF17-2R MRK-X17-2R **16.2**" **1920 1200 MRK-X17-2L** MRK-X17-3 MRK-19-2L 1280 1024 MRK-19-3 MRK-19-2R

Rear View



MRK-F17 MRK-MF17	MRK-		Option 1	: VGA + DVI-I : VGA + HDM : VGA + DP (11	r MRK-F17 / N	MRK-MF17)
		DP	HDMI	DVI-D	VGA	Keyboard	Power
	Central				()		0
	Left	Danner		· • • • • • • • • • • • • • • • • • • •	(389)	Mouse	
	Right				E		





2U Multi-display Drawer



Benefits

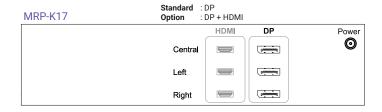
- ▶ 2U 22" short depth design
- Light weight only 42.7 lbs / 19.4 kgs
- Rugged construction for mobility & durability
- Built-in solid bearing slide rails
- Built-in dual stereo speaker (per display)
- ► Five LED backlit display selections (4K, WUXGA, FHD 60Hz, FHD 144Hz, 4:3)
- DVI-D + VGA video input for WUXGA, FHD & 4:3 (per display)
- Display port 1.2 video input for 4K (per display)
- ► Fits 24" ~ 36" rack via adjustable mounting brackets

Options

- DC power: 12V / 24V / 48V / 125V
- 3G / HD / SD-SDI Broadcast-grade input
- Touchscreen for 17" 4K, 17" FHD & 19" 4:3
- HDMI video input

Models LH mounted RH mounted 4K MRP-K17-2L MRP-K17-3 MRP-K17-2R 1080p **60** Hz MRP-F17-2L MRP-F17-3 MRP-F17-2R MRP-MF17-2R 1080p **144** Hz MRP-MF17-2L MRP-MF17-3 **16.2**" **1920 1200** MRP-X17-2L MRP-X17-3 MRP-X17-2R 1280 1024 MRP-19-2L MRP-19-3 MRP-19-2R

Rear View



MRP-F17 MRP-MF17	MRP-		Option 1	: VGA + DVI-I : VGA + HDM : VGA + DP (11	r MRP-F17 / MRP-MF17)
		DP	HDMI	DVI-D	VGA	Power
	Central				()	O
	Left	Damanol		· ## 0	()	
	Right	[· • •	()	

Full Model List - Rack Console Drawer & Rack Display





RoHS3

REACH

				LCD Panel					KV	M Rear	Kit		
Rack Console Drawer Series	Model	Video Input	Categories	Size	Resolution	Chassis Design		2K	DVI-D	Cambo	t 6 Martix		-15
	K117	DP 1.2 (attached 6ft cable)	4K	17"	3840 x 2160	1U, Short Depth design of 480mm	_			COIIIDO	IVIdILIA	COIIIDO	USB HI
	F117	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Short Depth design of 460mm		_		v	_	_	,
	F119	DVI-D + VGA	FHD	19"	1920 x 1080	1U, Short Depth design of 460mm		_	-	_		-	,
	X117	HDMI 1.4 + DVI-D + VGA	WUXGA	16.2"	1920 x 1200	1U, Short Depth design of 480mm		_	-			-	,
	L120	VGA	Regular	20"	1600 x 1200	10		_	_	~	~	~	
	W119	DVI-D + VGA	Regular	19" Wide LCD	1440 x 900	1U, Short Depth design of 460mm		_		_	_	_	_
1U LCD Console Drawer	RKP117	VGA	Regular	17"	1280 x1024	1U, Short Depth design of 470mm		_	-	,		,	_
	RKP119	VGA	Regular	19"	1280 x1024	1U, Short Depth design of 510mm		_	-	,		,	,
	N117	VGA	Regular	17"	1280 x1024	1U, Short Depth design of 500mm		_	_	~	~	~	
	N119	VGA	Regular	19""	1280 x1024	1U, Short Depth design of 500mm		_	_	~	~	~	
	RKP7/9	VGA	Regular	17" / 19"	1280 x1024	10		_	_	~	~	~	
	K123	DP 1.2 (attached 6ft cable)	4K	23"	3840 x 2160	1U, Left open model or Right open model	_						
arge LCD	F121	DVI-D + VGA	FHD	21"	1920 x 1080	1U, Left open model or Right open model		_	_	_	_	_	_
	X124	DVI-D + VGA	WUXGA	24"	1920 x 1200	1U, Left open model or Right open model		_	-	,		,	,
Dual Slide	DK117	DP 1.2 (attached 6ft cable)	4K	17"	3840 x 2160	1U. Dual Slide	_						
	DF117	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Dual Slide		_		v	_	_	
	DX117	DVI-D + VGA	WUXGA	16.2"	1920 x 1200	1U, Dual Slide				,		,	
	D117	VGA	Regular	17"	1280 x1024	1U. Dual Slide		,	,	,	_	,	
	D119	VGA	Regular	19"	1280 x1024	1U, Dual Slide		,		7	J	,	
oual Glide		DP 1.2 (attached 6ft cable)	4K	17"	3840 x 2160	2U, Dual Slide, Short depth 480mm	_		<u> </u>	_		_	
	RKP2417F		FHD	17"	1920 x 1080	2U, Dual Slide, Short depth 480mm	_	_		<i>-</i>	v	_	
	RKP2417	VGA	Regular	17"	1280 x1024	2U, Dual Slide, Short depth 480mm				,	,	,	
	RKP2419	VGA	Regular	19"	1280 x1024	2U, Dual Slide, Short depth 480mm				,	,	,	
	K1417	DP 1.2 (attached 6ft cable)	4K	17"	3840 x 2160	1U, Ultra Short Depth design of 400mm	_		<u> </u>	_		_	
Jltra Short Depth	F1417	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Ultra Short Depth design of 400mm	_	_		J	J	_	,
	HF117	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Short Depth design of 480mm		,		,	J	,	,
High Brightness LCD	H117	VGA	Regular	17"	1280 x1024	1U, Short Depth design of 480mm		, ,	-	, , , , , , , , , , , , , , , , , , ,	J	,	7
riigii brigiitiless LCD	H119	VGA	Regular	19"	1280 x1024	1U, Short Depth design of 520mm		,	-	,	J	,	_
	S117	DVI-D + VGA	SUN	17"	1152 x 900	1U, Short Depth design of 460mm		-	-	,	J	,	J
	S117	DVI-D + VGA	SUN	19"	1152 x 900	1U, Short Depth design of 500mm		,	-	J	J	, , , , , , , , , , , , , , , , , , ,	-
SUN LCD Solution	NS117	DVI-D + VGA	SUN	17"	1152 x 900	1U, Short Depth design of 500mm		, , , , , , , , , , , , , , , , , , ,	-	J	J	, , , , , , , , , , , , , , , , , , ,	_
	NS119	DVI-D + VGA	SUN	19"	1152 x 900	1U, Short Depth design of 500mm		,	-	J	, , , , , , , , , , , , , , , , , , ,	,	
	MRK-K17	DP 1.2 / HDCP 1.3	4K	17"	3840 x 2160	2U, Triple / Dual (LH or RH mount) LCD		-		·	•	·	
	MRK-F17	DVI-D + VGA	FHD	17"	1920 x 1080	2U, Triple / Dual (LH or RH mount) LCD							
Multi-Display		DVI-D + VGA DVI-D + VGA	FHD 144Hz	17"	1920 x 1080								
with-pispiay	MRK-X17	DVI-D + VGA DVI-D + VGA		16.2"	1920 x 1080	2U, Triple / Dual (LH or RH mount) LCD 2U, Triple / Dual (LH or RH mount) LCD							
			WUXGA										
	MRK-19	DVI-D + VGA	Regular	19"	1280 X 1024	2U, Triple / Dual (LH or RH mount) LCD							

 $[\]mbox{\ensuremath{\star}}$ For more detailed specification, please refer to the product sheets :

 $www.austin-hughes.com/resource_cat/product-resources/rack-console-drawer-resources$

Large Display Panel High	egular rge LCD	Model RP-K617 RP-F617 RP-X617 RP-717 RP-819 RP-920 RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617 RP-HF821	Video Input Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.4 + DVI-D + VGA DISPlay port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	Categories 4K FHD WUXGA Regular Regular Regular Regular AEGULAR REGULAR REGULAR REGULAR REGULAR FHD	17" 17" 16.2" 17" 19" 20" 19" Wide LCD	Resolution 3840 x 2160 1920 x 1080 1920 x 1200 1280 x 1024 1280 x 1024 1600 x 1200 1440 x 900	Chassis Design 6U Rackmount 6U Rackmount 7U Rackmount 8U Rackmount 9U Rackmount 7U Rackmount 7U Rackmount	Touch Screen	3G / HD SD-SDI	DC Power
Large Display Panel High	irge LCD	RP-F617 RP-X617 RP-X17 RP-819 RP-920 RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617	DVI-D+VGA HDMI 1.4 + DVI-D + VGA Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	FHD WUXGA Regular Regular Regular Regular Augular Regular	17" 16.2" 17" 19" 20" 19" Wide LCD	1920 x 1080 1920 x 1200 1280 x 1024 1280 x 1024 1600 x 1200	6U Rackmount 6U Rackmount 7U Rackmount 8U Rackmount 9U Rackmount	\(\text{\tin}\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\\\ \ti}}\\ \text{\text{\text{\text{\text{\text{\text{\texitt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\texi}\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\tin\text{\text{\text{\texit{\texi}\tint{\text{\texi}\text{\texit}\titt{\texitit}}\\tint{\text{\texit{\text{\texi{\text{\texi}\tit	•	•
Large Display Panel High	irge LCD	RP-X617 RP-717 RP-819 RP-920 RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617	HDMI 1.4 + DVI-D + VGA Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	WUXGA Regular Regular Regular Regular AK	16.2" 17" 19" 20" 19" Wide LCD	1920 x 1200 1280 x 1024 1280 x 1024 1600 x 1200	6U Rackmount 7U Rackmount 8U Rackmount 9U Rackmount	, ,	· ·	, , , , , , , , , , , , , , , , , , ,
Larg Display Panel High	irge LCD	RP-717 RP-819 RP-920 RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617	DVI-D + VGA DIsplay port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	Regular Regular Regular Regular	17" 19" 20" 19" Wide LCD	1280 x 1024 1280 x 1024 1600 x 1200	7U Rackmount 8U Rackmount 9U Rackmount	v	,	-
Larg Display Panel High	irge LCD	RP-819 RP-920 RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617	DVI-D + VGA DVI-D + VGA DVI-D + VGA DVI-D + VGA Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	Regular Regular Regular 4K	19" 20" 19" Wide LCD	1280 x 1024 1600 x 1200	8U Rackmount 9U Rackmount	~	~	•
Display Panel High		RP-920 RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617	DVI-D + VGA DVI-D + VGA Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	Regular Regular 4K	20" 19" Wide LCD	1600 x 1200	9U Rackmount			
Display Panel High		RP-W719 RP-K923 RP-F821 RP-X924 RP-HF617	DVI-D + VGA Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	Regular 4K	19" Wide LCD			~	_	
Display Panel High		RP-K923 RP-F821 RP-X924 RP-HF617	Display port 1.2 + HDMI 1.4 + HDMI 2.0 DVI-D + VGA HDMI 1.3 + DVI-D + VGA	4K		1440 x 900	7U De alors a cost			~
Display Panel High		RP-F821 RP-X924 RP-HF617	DVI-D + VGA HDMI 1.3 + DVI-D + VGA				70 Rackmount	~	~	~
Display Panel High		RP-X924 RP-HF617	HDMI 1.3 + DVI-D + VGA	EHD	23"	3840 x 2160	9U Rackmount; VESA Mount Ready	~	~	~
High	gh Brightness	RP-HF617		FUD	21"	1920 x 1080	8U Rackmount; VESA Mount Ready	~	~	~
High	gh Brightness			WUXGA	24"	1920 x 1200	9U Rackmount; VESA Mount Ready	~	~	~
Sun	gh Brightness	PP-HF821	DVI-D + VGA	FHD	17"	1920 x 1080	6U Rackmount	~	~	~
Sun	gh Brightness	10 111 021	DVI-D + VGA	FHD	21"	1920 x 1080	8U Rackmount; VESA Mount Ready	~	~	~
		RP-H717	DVI-D + VGA	Regular	17"	1280 x 1024	7U Rackmount	~	~	~
		RP-H819	DVI-D + VGA	Regular	19"	1280 x 1024	8U Rackmount	~	~	~
		RP-HW719	DVI-D + VGA	Regular	19" Wide LCD	1440 x 900	7U Rackmount	~	~	~
		SP-717	DVI-D + VGA	SUN	17"	1152 x 900	7U Rackmount			~
Split	In LCD Solution	SP-819	DVI-D + VGA	SUN	19"	1152 x 900	8U Rackmount			~
Split			DVI-D + VGA	SUN	20"	1152 x 900	9U Rackmount			~
Split		RP-F921QD-1080	QD (HDMI 1.3 x 4) + DVI-D + VGA	FHD	21"	1920 x 1080	9U Rackmount; VESA Mount Ready			~
	Split Quad	RP-919QD	QD (Composite BNC x 4) + VGA	Regular	19"	1280 x 1024	9U Rackmount			~
		RP-W819QD	QD (Composite BNC x 4) + VGA	Regular	19" Wide LCD	1440 x 900	8U Rackmount			~
		RP-K117	Display port 1.2 (attached 6ft DP cable)	4K	17"	3840 x 2160	1U, Short Depth design of 480mm		~	~
		RP-F117	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Short Depth design of 480mm	-	~	~
		RP-X117	DVI-D + VGA	WUXGA	16.2"	1920 x 1200	1U, Short Depth design of 480mm	~	~	~
Regu	egular	RP-117	DVI-D + VGA	Regular	17"	1280 x 1024	1U, Short Depth design of 500mm	-		~
		RP-119	DVI-D + VGA	Regular	19"	1280 x 1024	1U, Short Depth design of 500mm	_		_
		RP-W119	DVI-D + VGA	Regular	19" Wide LCD	1440 x 900	1U, Short Depth design of 460mm		~	_
		RP-120	DVI-D + VGA	Regular	20"	1600 x 1200	10			~
		RP-K1417	Display port 1.2 (attached 6ft DP cable)	4K	17"	3840 x 2160	1U, Ultra Short Depth design of 400mm	_	~	~
Ultra	tra Short Depth	RP-F1417	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Ultra Short Depth design of 400mm	_	~	~
		RP-HF117	DVI-D + VGA	FHD	17"	1920 x 1080	1U, Short Depth design of 480mm	_	~	~
		RP-HW119	DVI-D + VGA	Regular	19"	1440 x 900	1U, Short Depth design of 460mm		~	_
Display Drawer High	gh Brightness	RP-H117	DVI-D + VGA	Regular	17"	1280 x 1024	1U, Short Depth design of 500mm	_		_
		RP-H119	DVI-D + VGA	Regular	19"	1280 x 1024	1U, Short Depth design of 500mm	_		_
		SP-117	DVI-D + VGA	SUN	17"	1152 x 900	1U, Short Depth design of 500mm			_
Sun	Sun LCD Solution	SP-119	DVI-D + VGA	SUN	19"	1152 x 900	1U, Short Depth design of 500mm			_
Guil		SP-120	DVI-D + VGA	SUN	20"	1152 x 900	1U			_
		RP-119QD	QD (Composite BNC x 4) + VGA	FHD	19"	1280 x 1024	10			,
Split	olit Quad	RP-W1190D	QD (Composite BNC x 4) + VGA	Regular	19" Wide LCD	1440 x 900	10			,
		MRP-K17	DP 1.2 / HDCP 1.3	4K	17"	3840 x 2160	2U, Triple / Dual (LH or RH mount) LCD		_	,
		MRP-F17	DVI-D + VGA	FHD	17"	1920 x 1080	2U, Triple / Dual (LH or RH mount) LCD	-	,	_
Mult	ulti-Display	MRP-MF17	DVI-D + VGA	FHD 144Hz	17"	1920 x 1080	2U, Triple / Dual (LH or RH mount) LCD		,	,
Widit	anti Dispity	MRP-X17	HDMI 1.4 + DVI-D + VGA	WUXGA	16.2"	1920 x 1000	2U, Triple / Dual (LH or RH mount) LCD	J	,	,
			DVI-D + VGA	Regular	19"	1280 x 1024		,	J	7

^{*} For more detailed specification, please refer to the product sheets : www.austin-hughes.com/resource_cat/product-resources/rack-display-resources/

Keyboard Drawer



RK-2e / RK-2b

1U Short Depth Keyboard Drawer

Benefits

- ▶ 1U keyboard drawer
- ▶ 104-key keyboard with either touchpad or trackball
- ► Short depth design of 400mm
- Modern, molded front handle with two point lock

Options

• MAC or SUN Micro keyboard options



RK-1e / RK-1b

1U Keyboard Drawer with KVM Options

Benefits

- ▶ 1U keyboard drawer
- ▶ 104-key keyboard with either touchpad or trackball
- Keyboard drawer depth 600mm
- One man installation design
- Modern, molded front handle with two point lock

Options

- MAC or SUN Micro keyboard options
- KVM rear kit: 2K

DVI-D

Combo Cat6

Matrix Cat6

Combo DB-15

USB Hub DB-15

Standard Keyboard













Supported Layouts











FMFA





KVM Extender





Combo KVM Extenter

Benefits

- ▶ Remote console up to 150M
- Dual user access at remote site
- Pure hardware solution makes network independent
- No software required



IP-S101

IP Combo KVM Extender

Renefits

- ► IP Remote access from any location via web browser
- Compatible with all branded KVM switches
- ▶ Maintaining servers across the world up to BIOS level



Key Benefits

- ▶ 3840 x 2160@60Hz native UHD resolution
- ▶ 1920 x 1080 & 1920 x 1200 resolution support
- ▶ 1.07B colors (10-bit)
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
- Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- IP65 front protection (NAP series)
- Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

- DC power: 24V / 48V / 125V
- Touchscreen (for K55", K43" & K32")*
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- High brightness panel (for K55" & K43")
- HDMI decoder & extender
- HDMI quad display module 1080p
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- 12G / 4K60 / SD-SDI input module
- Portrait mode module
- Auto dimming
- · Manual dimming
- * Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-4K-L.pdf

Standard Brightness / 700 cd/m² High Brightness



8mm/6mm aluminum front bezel



AP-K55 HAP-K55 AP-K43 HAP-K43

AP-K32

AP-K28

NEMA 4 / IP65 front protection 8mm/6mm aluminum front bezel



NAP-K55 NHAP-K55

NAP-K43 NHAP-K43 NAP-K32

NAP-K28

Aluminum front cover



DP-K55 HDP-K55 DP-K43 HDP-K43

DP-K32 DP-K28 Universal open frame



OP-K55 HOP-K55 OP-K43 HOP-K43

OP-K32

OP-K28

- Dimension
- Color & Treatment
- Screen Printing
- Stainless Steel Bezel



Key Benefits

- ▶ 3840 x 2160@60Hz native UHD resolution
- ▶ 1920 x 1080 & 1920 x 1200 resolution support
- K23": 1.07B colors (10-bit)
- K17", K15" & K13": 16.7M colors (8-bit)
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
- Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- ▶ IP65 front protection (NAP series)
- Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

- DC power: 12V / 24V / 48V / 125V
- Touchscreen *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- HDMI decoder & extender
- HDMI quad display 1080p (for K23")
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- 12G / 4K60 / SD-SDI input module
- · Auto dimming
- · Manual dimming

Standard Brightness

6mm aluminum front bezel



AP-K23 AP-K17 AP-K15 AP-K13

Aluminum front cover



DP-K23 DP-K17 DP-K15 DP-K13

NEMA 4 / IP65 front protection 6mm aluminum front bezel



NAP-K23 NAP-K17 NAP-K15 NAP-K13

Universal open frame



OP-K23 OP-K17 OP-K15 OP-K13

Chassis customization

Dimension

Color & Treatment

Screen Printing

Stainless Steel Bezel

^{*} Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-4K-S.pdf



Key Benefits

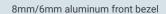
- ▶ 1920 x 1080 native FHD resolution
- ▶ 1.07B colors (10-bit)
- DVI-D / VGA video input
- ▶ DP / HDMI video input (option)
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- ▶ IP65 front protection (NAP series)
- Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

- DC power: 24V / 48V / 125V
- Touchscreen (for F55", F43" & F32") *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- Sunlight readable panel (for F55", F43" & F32")
- HDMI decoder & extender
- HDMI quad display 1080p
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- Portrait mode module
- Auto dimming
- Manual dimming
- * Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-FHD-L.pdf

Standard Brightness / 1500 cd/m² Sunlight Readable Brightness





AP-F55 HAP-F55 AP-F43 HAP-F43

AP-F32 HAP-F32

AP-F28

NEMA 4 / IP65 front protection 8mm/6mm aluminum front bezel



NAP-F55 NHAP-F55

NAP-F43 NHAP-F43 NAP-F32 NHAP-F32

NAP-F28

Aluminum front cover



DP-F55 HDP-F55 DP-F43 HDP-F43

DP-F32 HDP-F32

DP-F28

Universal open frame



OP-F55 HOP-F55

OP-F43 HOP-F43 OP-F32 HOP-F32

OP-F28

Chassis customization

Dimension

Color & Treatment

Screen Printing

Stainless Steel Bezel



Key Benefits

- ▶ 1920 x 1080 native FHD resolution
- ► F23": 1.07B colors (10-bit)
- ► F21": 16.7M colors
- F17", F15" & F13": 16.7M colors (8-bit)
- DVI-D / VGA video input
- ▶ DP / HDMI video input (option)
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- ► IP65 front protection (NAP series) Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

- DC power: 12V / 24V / 48V / 125V
- Touchscreen *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- Sunlight readable panel (for F21", F17" & F15")
- HDMI decoder & extender
- HDMI quad display 1080p (for F23" & F21")
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- Portrait mode module (for F23")
- Auto dimming
- Manual dimming
- * Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-FHD-S.pdf

Standard Brightness / 1000 cd/m² Sunlight Readable Brightness

6mm aluminum front bezel



AP-F23

HAP-F21 AP-F21

HAP-F17

AP-F15 HAP-F15

NEMA 4 / IP65 front protection 6mm aluminum front bezel



NAP-F23

NAP-F21 NHAP-F21

NHAP-F17 NAP-F15 NHAP-F15

NAP-F13

Aluminum front cover



DP-F23

DP-F21 HDP-F21

DP-F15 HDP-F15

DP-F13

Universal open frame



OP-F23

OP-F21 HOP-F21

HOP-F17

OP-F15 HOP-F15

OP-F13

- Dimension
- Color & Treatment
- Screen Printing
- Stainless Steel Bezel





Key Benefits

- ▶ 144 Hz high frequency refresh rate
- ▶ 1920 x 1080 native FHD resolution
- ▶ 16.7M colors
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
- ► VGA + DVI-D + HDMI-1.4 video input for MF27"
- ▶ VGA + DVI-D video input for MF17"
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- ► IP65 front protection (NAP series)
- Professional-use durability & around-the-clock operation

Applications

- · Military / Defense
- eSport
- Gaming
- Video Editing
- Broadcasting / Advertising
- Traffic control / Command center
- Surveillance system
- · Vehicle mount display

Options

- DC power: 12V / 24V / 48V / 125V
- Touchscreen *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- HDMI decoder & extender
- HDMI quad display 1080p (for MF27")
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- Portrait mode module (for MF27")
- Auto dimming
- · Manual dimming

Standard Brightness

6mm aluminum front bezel



AP-MF27 AP-MF17

NEMA 4 / IP65 front protection 6mm aluminum front bezel



NAP-MF27 NAP-MF17

Aluminum front cover



DP-MF27 DP-MF17

Universal open frame



OP-MF27 OP-MF17

- Dimension
- Color & Treatment
- Screen Printing
- ► Stainless Steel Bezel

^{*} Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-MF.pdf





Key Benefits

- ▶ 1920 x 1200 WUXGA native resolution
- ▶ 16.7M colors (8-bit for X17 16.2" LED)
- X24": HDMI 1.3 + DVI-D + S-Video + BNC + VGA
- ► X17 : HDMI 1.4 + DVI-D + VGA
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- IP65 front protection (NAP series)
- Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

Options

- DC power: 12V / 24V / 48V / 125V
- Touchscreen *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- Auto dimming
- Manual dimming

Standard Brightness

6mm aluminum front bezel



AP-X24 AP-X17

Aluminum front cover



DP-X24 DP-X17

NEMA 4 / IP65 front protection 6mm aluminum front bezel



NAP-X24 NAP-X17

Universal open frame



OP-X24 OP-X17

- Dimension
- Color & Treatment
- Screen Printing
- ► Stainless Steel Bezel

^{*} Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-WUXGA.pdf



Key Benefits

- ▶ 1440 x 900 / 1600 x 1200 / 1280 x 1024 native resolution
- ▶ 16.7M colors
- ► DVI-D + VGA video input
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- ▶ IP65 front protection (NAP series)
- Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- · Vehicle mount display
- Bathroom TV

Options

- DC power: 12V / 24V / 48V / 125V
- Touchscreen *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- · Custom chassis & mounting
- Sunlight readable panel (W19", 19" & 17")
- HDMI decoder & extender (for W19")
- HDMI quad display 1080p (for W19")
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- · Auto dimming
- · Manual dimming

Standard Brightness / 1000 cd/m² Sunlight Readable Brightness





AP-W19 HAP-W19

AP-20

AP-19 HAP-19

AP-17 HAP-17

NEMA 4 / IP65 front protection 6mm aluminum front bezel



NAP-W19 NHAP-W19

NAP-20

NAP-19 NHAP-19

NAP-17 NHAP-17

Aluminum front cover



DP-W19 HDP-W19

DP-20

DP-19 HDP-19

DP-17 HDP-17

Universal open frame



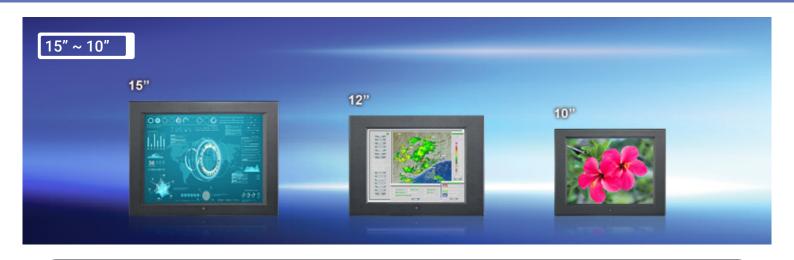
OP-W19 HOP-W19

OP-20

OP-19 HOP-19 OP-17 HOP-17

- Dimension
- Color & Treatment
- Screen Printing
- ► Stainless Steel Bezel

^{*} Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-Regular-L.pdf



Key Benefits

- ▶ 1024 x 768 / 800 x 600 / 640 x 480 native resolution
- ▶ 15": 16.2M colors
- ▶ 12" & 10": 262K colors
- VGA video input
- Video decoding capability up to 1080p (option)
- Rugged structure ensures high mobility
- ▶ IP65 front protection (NAP series)
- ▶ Professional-use durability & around-the-clock operation

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

Options

- DC power: 12V / 24V / 48V / 125V
- Touchscreen *
- Anti-reflective glass or Vandal proof glass
- IP65 front protection
- Custom chassis & mounting
- Multi monitor OSD control module
- Auto dimming
- · Manual dimming

Standard Brightness

6mm aluminum front bezel



AP-15 AP-12

AD 10

AP-10

Aluminum front cover



DP-15 DP-12

DP-10

NEMA 4 / IP65 front protection 6mm aluminum front bezel



NAP-15

NAP-12

NAP-10

Universal open frame



OP-15

OP-12

OP-10

Chassis customization

Dimension

Color & Treatment

Screen Printing

► Stainless Steel Bezel

^{*} Refer to the following link for details of touchscreen models. www.austin-hughes.com/CA-UV-Regular-S.pdf

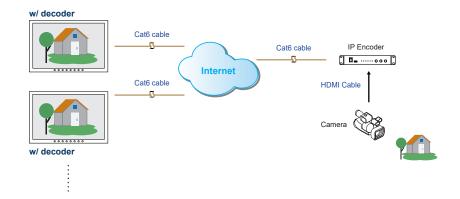


Embedded HDMI Decoder Module 1080p over IP

- Decodes RTSP, RTMP, UDP, HTTP, HLS protocols
- Supports video resolutions up to 1080p / 60Hz
- Unicast and multicast support
- Operates on standard 1000Mb Ethernet networks
- Built-in Web UI for configuration and control
- Excellent image quality with very low delay

Part no.:

Embedded HDMI Decoder Module: UV-DE100F Standalone HDMI Encoder: UV-EN100F

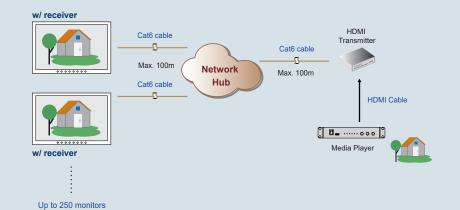


Embedded HDMI Receiver Module 1080p

- Extends the HDMI signal over a single Cat5/6 cable
- Supports video resolutions up to 1080p / 60Hz
- One to one just via Cat5/6 cable
- One to multi via network hub and Cat5/6 cable
- 100m maximum Cat5/6 cable distance
- Supports bi-directional IR communication
- High Speed HDMI 1.4 and HDCP 1.4 compliant
- No software or drivers required

Part no.:

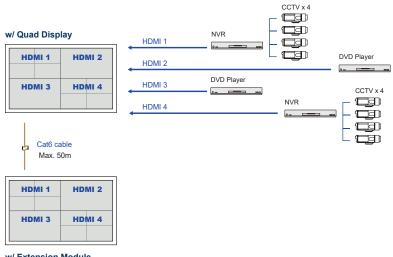
Embedded HDMI Receiver Module: UV-R100F Standalone HDMI Transmitter: UV-T100F



Embedded HDMI Quad Display Module 1080p

- Allows 4 x HDMI inputs to be monitored simultaneously
- · Quad split, panel left and full screen monitoring modes
- High speed HDMI 1.4 and HDCP 1.4 compliant
- Supports video resolutions up to 1080p / 60Hz
- Supports Scaler Up and Down function
- Control via local front panel and IR remote

Embedded HDMI Quad Display Module: QD-1080 Embedded Quad Display Extension Module: QD-E1080

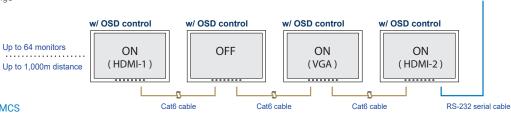


w/ Extension Module

OSD control station

Embedded Multi Monitor OSD Control Module over serial

- Remote control the monitor OSD via RS-232C serial interface
- Daisy chain up to 64 monitors via Cat5/6 cable
- Individual ID for individual monitor OSD settings
- Power ON or OFF monitor
- Adjust brightness & audio
- Switch video sources



Part no.:

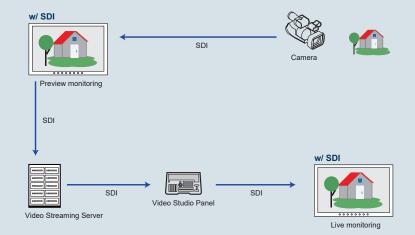
Embedded Multi Monitor OSD Control Module: MCS

Embedded 3G / HD / SD-SDI Input Module Embedded 12G / 4K60 / SD-SDI Input Module

- Intelligent SDI monitoring with broadcast quality scopes
- Supports multi-rate 3G / HD & 12G / 4K60 / SD-SDI format
- Provides input to output loop-through capability
- Auto format sensing & selection

Part no.:

Embedded 3G / HD / SD-SDI Input Module : SDI Embedded 12G / 4K60 / SD-SDI Input Module : 12G-SDI



Embedded Portrait Mode Module

- Provides users with a rotation feature (0, 90, 180 & 270 orientation) without frame delay via OSD
- Allows distortion-free display of content in various orientations
- Creates new application opportunities

Part no.:

Embedded Portrait Mode Module: AD4.0-P



w/ Portrait mode module

Embedded Auto Brightness Dimming Module

- Brightness changes according to its ambient brightness
- Its brightness change causes 10% increase or decrease

Part no.:

Embedded Brightness Auto Dimming Module : DA-01







Embedded Manual Brightness Dimming Knob

- Easy-to-use IP54 dimming knob on the front panel
- One click causes 2% brightness increase or decrease
- Brightness adjustment from 0% to 100%

Part no.

Brightness Dimming Knob: DS-01





Remote Reboot to Recover Your Device

- When a complete restart is required MiniBoot provides a simple and easy way to reboot a hardware device
- In addition to manual on/off, MiniBoot provides 3 kinds of auto outlet control:
 - IP-Ping automatically detects a failed system for timely reboot
 - Outlet on/off by sensor condition
 - Outlet on/off scheduling





Diversified Outlets & Inlets

- Variety of outlets & inlets available for different regional power requirements
- Outlet: US NEMA, IEC C13, UK BS1363, German Schuko CEE 7/3 or French CEE 7/5
- Inlet: C20 for different regional power cords (Custom inlet available on request.)



Enterprise Level IP Authentication

- Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS).
- Remote Access Dial-In User Service (RADIUS) protocol, or local credential database.
- Strong passwords and granular user/user group permissions.
- · Support high-speed network IP via Gigabit IP LAN port



Save Manpower & Travel Costs

- Restart the problem device by remotely power on & off, MiniBoot allow user to recover the equipment via network IP.
- Reduce manpower and travel costs by negating the need for staff to actually be at the equipment location, improving uptime and productivity.



Power Monitoring via Network & Local Meter

- Allows remote monitoring via the free Graphic User Interface (GUI).
- Provides local current monitoring via MiniBoot blue LED ammeter.
- Allows user to establish the remaining capacity prior to adding a new device to the MiniBoot, plus displays the current being drawn and receives threshold alerts remotely.



Remote Management

- Simultaneous access via free management web GUI.
- SNMP V2 / V3 integration to DCIM.
- $\bullet \ \ \text{Remote management protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4.}$



Alerts / Alarms

- Receive alerts via SNMP, email (SMTP), and syslog when predefined thresholds are exceeded for both MiniBoot and environmental sensor events.
- Common SNMP MIBs (Management Information Base) for all MiniBoot models.



Sensors & WiFi

- Variety of optional sensors: Temperature & Humidity, Temperature, Smoke, Door.
- Option to connect via a WiFi kit (IPD-WIFI) complying with 802.11 g/n/ac.

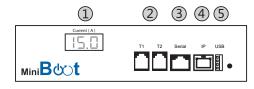


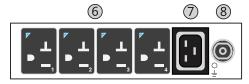
Remote power reboot and monitoring functions are essential for hardware systems. MiniBoot offers a cost-efficient power solution for any environment with electronic devices or systems. Users can try to recover the crashed device by remote reboot, reducing the need to send engineers to site (less personnel and travel costs by negating the need for staff to be at the equipment location) therefore improving uptime and productivity.

Unlike a rack power strip which is mounted inside an IT server rack enclosure, MiniBoot can be applied in diversified applications. MiniBoot is designed for a variety of industries - Transportation (Air, Land and Sea), Broadcasting, Entertainment, Advertising, Manufacturing, Mining, Satellite, Defense, Education, Telecommunication, Finance & Banking, Commercial, etc.











- 1 RMS current meter x 1
- 2 Sensor port x 2
- 3 Serial port x 1
- 4 Gigabit IP LAN port x 1
- USB Wifi port x 1
- 6 Switched outlets (US NEMA, C13, UK, Schuko or French)
- 7 C20 Inlet x 1
- 8 Resettable fuse x 1

MiniBoot -	· Single Fee	d	Amp				
Outlet	Inlet	Model	110V	208V	230V		
NEMA x 2 NEMA x 4 NEMA x 8	C20 x 1	MiniBoot-2US MiniBoot-4US MiniBoot-8US	15A				
C13 x 2 C13 x 4 C13 x 8	C20 x 1	MiniBoot-2C13 MiniBoot-4C13 MiniBoot-8C13		16A	10A / 13A / 16A		
UK x 4	C20 x 1	MiniBoot-4UK			10A / 13A / 16A		
Schuko x 4	C20 x 1	MiniBoot-4SCH			10A / 16A		
French x 4	C20 x 1	MiniBoot-4FR			10A / 16A		

 $^{^{\}star}\,$ Custom configuration available on request







Hardware Specifications

Electrical	
Nominal input voltage	110V / 208V / 230V
Acceptable input voltage	±10% nominal
Input frequency	50 / 60Hz
Inlet	C20
Outlet	US NEMA, C13, UK BS1363, Schuko or French
Local meter	3-digit RMS current meter
Overload protection	Resettable fuse
Electrical endurance	1 x 10 ⁵ operations

Chassis	
Color	White
Material	Steel

Compliance	
Operating temperature	-5 to 60°C degree (23 to 140°F)
Storage temperature	-25 to 65°C degree (13 to 149°F)
Operating humidity	0~95%, non-condensing
Storage humidity	0~95%, non-condensing

Physical (NEMA or C13)	2 x outlet / 4 x outlet	8 x outlet
Product (WxDxH)	180 x 140 x 44.45 mm	325 x 140 x 44.45 mm
Packing (WxDxH)	300 x 196 x 81 mm	525 x 230 x 80 mm
Net weight	0.9 kg / 2.0 lb	1.6 kg / 3.5 lb
Gross weight	1.2 kg / 2.7 lb	2.54 kg / 5.6 lb

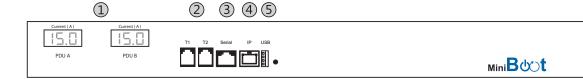
Physical (UK, SCH or FR)	4 x outlet
Product (WxDxH)	220 x 150 x 55 mm
Packing (WxDxH)	300 x 196 x 81 mm
Net weight	1.23 kg / 2.7 lb
Gross weight	1.53 kg / 3.4 lb

Compliance		
EMC	FCC, CE/EMC	
Safety	UL 62368-1:2014, CE/LVD	
Environment	RoHS3, Reach & WEEE	
ISO	9001 / 14001	

^{**} Input cordset excluded



8



- RMS current meter x 2
- Sensor port x 2
- Serial port x 1







Switched outlets (US NEMA, C13)



8 Resettable fuse x 2

MiniBoot - Single Feed			Amp		
Outlet	Inlet	Model	110V	208V	230V
NEMA x 8	C20 x 2	MiniBoot-D8US	15A		10A / 13A / 16A
C13 x 8	C20 x 2	MiniBoot-D8C13		16A	10A / 16A

^{*} Custom configuration available on request ** Input cordset excluded





Hardware Specifications

Electrical	
Nominal input voltage	110V / 208V / 230V
Acceptable input voltage	±10% nominal
Input frequency	50 / 60Hz
Inlet	C20 x 2
Outlet	US NEMA, C13
Local meter	3-digit RMS current meter x 2
Overload protection	Resettable fuse x 2
Electrical endurance	1 x 10 ⁵ operations

Physical (NEMA or C13)	8 x outlet
Product (WxDxH)	437.5 x 140 x 44.45 mm
Packing (WxDxH)	525 x 230 x 80 mm
Net weight	1.8 kg / 4.0 lb
Gross weight	2.8 kg / 6.2 lb

Chassis	
Color	White
Material	Steel

Compliance	
Operating temperature	-5 to 60°C degree (23 to 140°F)
Storage temperature	-25 to 65°C degree (13 to 149°F)
Operating humidity	0~95%, non-condensing
Storage humidity	0~95%, non-condensing

Compliance		
EMC	FCC, CE/EMC	
Safety	UL 62368-1:2014, CE/LVD	
Environment	RoHS3, Reach & WEEE	
ISO	9001 / 14001	





Built-in MiniBoot GUI

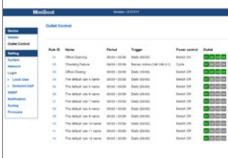
User-friendly GUI is included with MiniBoot. The Administrator can remotely manage the MiniBoot via the web browser.

It provides individual outlet switching On/Off, current monitoring and alarm alert functions. With enterprise level IP authentication, the administrator can manage the MiniBoot remotely with high security.

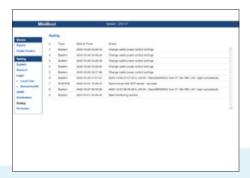
Circuit Monitoring & Outlet Switching



Outlet Control



System Audit Trail



3rd Party DCIM via SNMP V2 / V3

MiniBoot supports SNMP V2 / V3 integration for clients requiring remote management of the MiniBoot using their existing DCIM (Data Center Infrastructure Management) in order to centralize the management for monitoring power, cooling and environmental factors across facilities and IT systems.

MiniBoot Software

FREE MiniBoot Web Power Reboot GUI	
Functions	Manual outlet on / off by GUI / SNMP
	Automatic outlet on / off by scheduling , IP Ping and sensor condition
	Aggregate current (Amp) monitoring
	• Alarm alert
Enterprise Level IP Authentication	Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS)
	Remote Access Dial-In User Service (RADIUS) protocol, or local credential database
Remote Management	Protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4
Alarms / Alerts	• Receive alerts via SNMP, email (SMTP), and syslog when predefi ned thresholds are exceeded for both MiniBoot and environmental sensor events
	Common SNMP MIBs (Management Information Base) for all MiniBoot models
SNMP	• SNMPv1/v2 & SNMPv3 for integration to DCIM



Free Mounting Kit

Side Mount Kit

- · Included with all MiniBoot models
- Enables easy installation into existing kiosks, walls, work panels and furniture



Rack Mount Kit

- · Included with 8-port MiniBoot models
- 19" horizontal rack mount version



Sensors & Peripherals

WiFi Kit

- 802.11 g/n/ac WiFi
- · Low-profile design wireless athena
- Magnetic base design for tool-less installation
- · 3.3ft cord with USB port



Temperature & Humidity Sensor Temperature Sensor

- · Plug & play
- External sensor with 2M or 4M cord
- Low profile design with magnetic base for easily affix to the rack



Smoke Sensor

- · Smoke Sensor with 1M or 3M cord
- When smoke alarm triggers the red LED light is visible on the sensor with continuous audio alert



Door Sensor

- · Mechanical door sensor with 2M or 4M cord
- · Cost efficient integration into rack



Lockable IEC



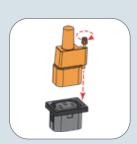
Lockable C13 Outlet

- Lockable C13 outlet MiniBoot models are available to secure plugs and prevent accidental disconnection
- · Supports standard or switched outlets
- Compatible with lockable C13 power cords for outlet locking features



Lockable Color C14-C13 Cord

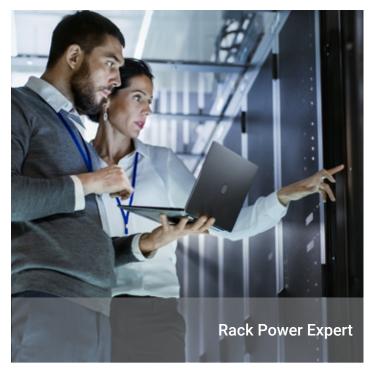
- Connect to lockable C13 outlets to secure plugs and prevent accidental disconnection
- Selection:
 Black / Grey / Red / Blue / Orange / Green
 C14 C13: 0.5M / 1M / 2M





Founded in 1995, **Austin Hughes** is a design and manufacturing group that offers a broad range of solutions based around 19 inch rack mount technology: the UltraRack IT server rack series, InfraRack intelligent rack solutions, InfraPower intelligent remote management power solutions, InfraCool intelligent remote cooling systems, InfraGuard environmental sensors and peripherals, InfraSolution remote locking and access control & CyberView LCD KVM switches. We also offer industrial & commercial IT products: UltraView professional displays & MiniBoot web power reboot.

Austin Hughes has ISO14001 and ISO9001 approved design, manufacturing, assembly and test facilities. We support a worldwide customer base through our global locations in the Americas, EMEA, APAC and ASEAN and through an extensive authorized channel partner network.





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