Infra Rack

Design for Next-Gen Data Centers





>>> Key Benefits



Traditional racks no longer satisfy the market needs as today's data centers have to be well-managed, more efficient and powerful.

Intelligent racks are required to manage and control the power, cooling, environmental and rack access. Understanding an implementation of intelligent racks in data center is a complex task, Austin Hughes optimizes and consolidates a variety of rack solutions on your behalf. The new InfraRack series provides an integrated intelligent rack system. It is an easy approach to offer the rack essentials in the 21st century data centers.

Rohs2

InfraRack is recognized as RoHS2 and REACH compliant by a SGS accredited test laboratory.

ISO-Certified 9001 14001

The design and manufacturing process of the InfraRack series achieves BSi ISO9001 quality control plus ISO14001 environment standard.

Loading

Designed for heavy / medium duty applications, the InfraRack series has passed the loading test.

Benefits

Integration Base

Remote Management

Expandability

High Quality IT Rack

Complete Accessories

 $In fra Rack\ can\ be\ integrated\ with\ In fra-family\ intelligent\ devices\ for\ security,\ power,\ cooling\ \&\ environmental\ management.$

To maximize users' benefits, InfraRack can be connected to allow a centralized management over network.

Designed for the global scalable data center, the InfraRack network is expandable to max. 3000 intelligent racks.

Well-engineered InfraRack covers heavy duty and medium duty series for a variety of requirements.

Austin Hughes offers a complete 19" rack solution. A comprehensive range of accessories for cabling, air blanking and KVM screens are available.

Total Rack Solution

Our new design, comprehensive valued options and extensive product range offer complete solutions for InfraRack series.

>>> Access Control

- Smartcard access control gives data centers a higher level of rack level access security
- Networked version enables complete smartcard rack access management with software

>>> PDU

- Intelligent kWh PDU for remote management
- Metered PDU and ATS available for different requirements

>>> Cooling Fan

- Intelligent fan unit allows remote management by software
- InfraCool fan unit provides various fan unit form factors for different cooling requirements

>>> Sensors

- A wide range of sensors for complete environmental monitoring
- Maintain optimum operational conditions within the data center

>>> AirFlow

- Air Blanking Panels prevent air recirculation by occupying unused rack space
- Rack Seal Kits prevent air loss underneath the racks and from the gap between racks

>>> Cabling

- Framework allows multi-dimensional cable pathways
- Numerous efficient cabling options

>>> KVM & Screen

- LCD console drawers combine display, keyboard and touchpad in 1U rack space
- KVM allows remote or local access and control to multiple servers in the rack

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>>> Infra-X6-SR Heavy Duty Rack



SR Key Highlights

- Heavy duty server rack
- Access control w/ MiFare or Proximity smartcard handle x 2
- Control box for access control, intelligent PDU, sensor & cooling fan
- LED light bar x 1
- Temp. sensor x 1 w/ 2M cord
- 600 & 800 wide models meet up-to-date requirements of global data center
- Perforated rack doors ensure ideal airflow direction
- Well-engineered to accommodate tool-less mounting PDU x 4
- Framework allows multi-dimensional cable pathways and numerous efficient cabling options
- Easy to deploy and adaptable to Aisle containment to achieve efficient airflow management
- Quick release mechanism design for doors and split side panels
- Tool-less adjustment for front and rear 19" rails



REACH

	Package No.				De	pth		Height			
600W		Width		Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
4011	Infra-X6-SR-6042	600	24"	1072	42"	1000	39"	2035	80"	1867	74"
42U	Infra-X6-SR-6242	600	24"	1200	47"	1128	44"	2035	80"	1867	74"
45U	Infra-X6-SR-6045	600	24"	1072	42"	1000	39"	2168	85"	2000	79"
450	Infra-X6-SR-6245	600	24"	1200	47"	1128	44"	2168	85"	2000	79"
4711	Infra-X6-SR-6047	600	24"	1072	42"	1000	39"	2257	89"	2089	82"
47U	Infra-X6-SR-6247	600	24"	1200	47"	1128	44"	2257	89"	2089	82"
52U	Infra-X6-SR-6252	600	24"	1200	47"	1128	44"	2480	98"	2312	91"



package - Add M on the model no., sample : Infra-X8-SR-6042M

** Custom size on request



MiFARE

SMARTCARD

PROXIMITY

SMARTCARD







Proximity package - Add P on the model no., sample : Infra-X8-SR-6042P

800W		Width		Depth				Height			
	Package No.			Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
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** Custom size on request









Proximity package - Add P on the model no., sample : Infra-X8-SR-8042P

600W Heavy Duty Rack Standard Split Quick access design for service from side panel







■ Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

Gives 80% perforated area w/ smartcard handle

800W Heavy Duty Rack

Standard Split

Quick access design for service from side panel









■ Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Perforated w/ smartcard handle

Fully Perforated

>>> Infra-X6-NSR Medium Duty Rack



NSR Key Highlights

- Medium duty server rack
- Access control w/ MiFare or Proximity smartcard handle x 2
- Control box for access control, intelligent PDU, sensor & cooling fan
- LED light bar x 1
- Temp. sensor x 1 w/ 2M cord
- 600 & 800 wide models meet up-to-date requirements of global data center
- Perforated rack doors ensure ideal airflow direction
- Well-engineered to accommodate tool-less mounting PDU x 2
- Framework allows multi-dimensional cable pathways and numerous efficient cabling options
- Easy to deploy and adaptable to Aisle containment to achieve efficient airflow management
- Quick release mechanism design for doors and split side panels
- Tool-less adjustment for front and rear 19" rails



REACH

		Width			Depth				Height			
600W	Package No.			Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective		
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MiFARE

SMARTCARD

PROXIMITY







Proximity package - Add P on the model no., sample : Infra-X8-NSR-6042P

800W	Package No.	Width		Depth				Height			
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Proximity package - Add P on the model no., sample : Infra-X8-NSR-8042P

NSR 600W Medium Duty Rack

Standard Plain

Tool-less installation or removal when maximizing systems or equipment density





Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

Gives 80% perforated area w/ smartcard handle

NSR 800W Medium Duty Rack

Standard Plain

Tool-less installation or removal when maximizing systems or equipment density





■ Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

Perforated w/ smartcard handle

>>> Access Control

The patented Infra Solution® X-600 smartcard handle is designed for rack access control.

Control Box X-2000, designed for Rack Smartcard Access + PDU / Fan / Environmental Management, consolidates the smartcard access components and integrated devices such as integrated PDU, cooling fan and environmental sensors in a single rack. For a centralized management, all control boxes can be connected under wired networks.

To ensure 100% right door detection, InfraRack is equipped with high quality, durable and precise door sensors for front and rear door.





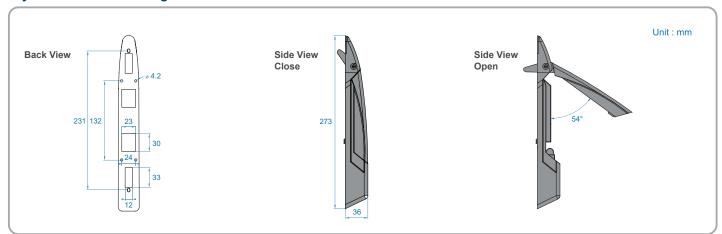


REACH

Patented and Worldwide Patents

X-600P		Features		X-600M
		Intelligent design with patent		
PROXIMITY SMARTCARD	~	Proximity 26-bit smartcard compatible		
		MiFARE 26-bit smartcard compatible	~	MIFARE SMARTCARD
		Dual locking system (electronics and mechanical lock)		
		Electronic lock released either by smartcard or software		
		Rack access status and alarm indication by LED		
		Individual key lock option available		
		Support 3-pt lock mechanism		

Stylish Mechanical Design



Handle Releasing

InfraSolution X-600 handle allows 3 lock releasing ways - by Software remote, Smartcard or Mechanical key.





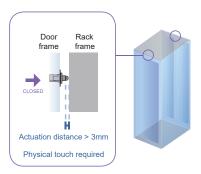


Control Box X-2000 0 0 1 2 3 4 (5) Power input Temp. LED display x 2 6 Dual power input (option) Smoke / Shock sensor port x 2 Door cable DB-9 connector x 2 LED Light Bar port x 2 Connect to the front and rear handle Port for 3rd party alarm board x 1 "Act in Out" LED LED beacon port x 1 Daisy chain RJ45 port x 2 Temp. & Humid. sensor port x 2 (Link & Out) PDU port x 1 (RJ-45, up to PDU daisy chain level x 4) Fan unit port x 1 (RJ-45, up to fan unit daisy chain level x 2) Water sensor port x 2

Mechanical Door Sensor, pair (S-DSW)

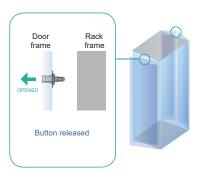
DOOR CLOSE

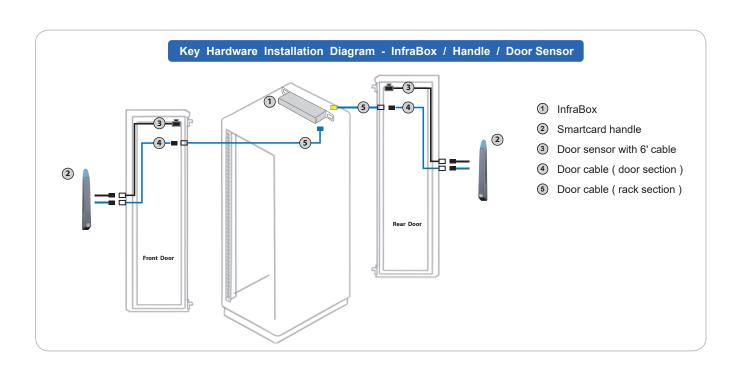
- Close door
- Sensor button is pressed on
- DOOR CLOSE SIGNAL sends out



DOOR OPEN

- Open door
- Sensor button is released
- DOOR OPEN SIGNAL sends out





To maintain optimum operational conditions in data centers, getting instant notification of environmental fluctuations is vital. InfraRack offers a wide range of sensors for complete environmental monitoring, including temperature, humidity, smoke, shock and water leakage. Peripherals such as LED light bars and flashing LED beacons, are designed for use with the sensors for a comprehensive local environmental monitoring solution.





REACH

Details





- 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 2M cord IG-TH01-4M 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 2M cord IG-T01-4M 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 3M cord

Smoke Sensor



· Safely operated smoke detection

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



Shock Sensor



- Alert the physical vibration on the rack
- Part no.: IG-V01-1M 1M cord IG-V01-3M 3M cord





· Highly visible for alerting user to alarm status

Part no.: IG-FB03-1M 1M cord IG-FB03-3M 3M cord

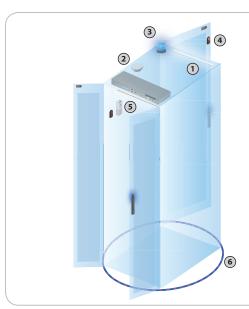


LED Light Bar



- · 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 2M cord CLB-IX-003 3M cord



Installation

	Item	Max. Qty
1	LED Light Bar	2
2	Smoke Sensor	1
3	Flashing LED Beacon	1
4	Temp. & Humid. Sensor	2
(5)	Shock Sensor	1
6	Water Sensor	1

>>> Cooling Fan

The biggest challenge in today's data center is thermal management. Cooling the equipment in an enclosed rack has always been important. Infra Cool® intelligent cooling fan units can be integrated to have both local & remote management capabilities. Front panel LED and buttons allow the local monitoring and individual fan kit switch on / off. Moreover, fan speed can be adjusted automatically according to the temperature detected by the sensor. It provides adequate airflow and minimizes the operation cost for data center energy consumption.









Intelligent Fan Unit	Door Mount Fan Panel	1U Rackmo	unt Fan Tray			
Part No.	RF-33.9	RF-1.6	RF-1.9			
Fan Number	9	6	9			
Total CFM	972	648	972			
Airflow	Front Door Rear Door Hot Air Out	Top Exhaust hot air out Equipment Cooling Bottom Cool air in				
Daisy-chained Fan x 2 via InfraBox	~	~				
Temp. Port	~	✓				
Temp. Sensor	~		~			
Automatic Fan Speed Control	~		~			
Control Panel:	~		~			
• Individual Fan On / Off	~		~			
Alarm Temp. Setting	~		~			
• Unit CFM (fan speed) Setting	~		~			
Temperature LED	~	~				
• Fan Status LED	~	✓				
CFM Status LED	~		v			



Basic Fan Unit

- Raised Floor Mount Fan Unit
- **Door Mount Fan Panel**
- **1U Fan Tray**

Details

http://www.austin-hughes.com/infracool

Rapidly escalating power requirements require a complete suite of rack PDU models to help data center managers meet rising demand.

Infra Power intelligent PDUs can be integrated with your rack to provide power management, including monitoring from the PDU branch level on down to the outlet. Switched models are also available that can provide remote on/off outlet switching functionality from anywhere in the world. Offered in many sizes and configurations, our PDUs provide the voltage, current, outlet number and type of connections required to fit any need.















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DDU carios		Metered	Moni	tored	Swit	Switched	
PDU series	Basic	MD	w	Wi	ws	WSi	
Outlet Level Measurement Over IP				~		~	
Outlet ON / OFF Switching Over IP					~	~	
Circuit / Phase Amp - kWh Measurement			~	~	~	~	
Hot-Swappable Meter			~	~	~	~	
Billing Grade Meter Accuracy Within +/- 1%			*	~	~	~	
1.8" Color LCD Meter (1-Phase)			~	~	~	~	
2.8" Color Touch LCD Meter (3-Phase)			~	~	~	~	
32 / 16 Daisy Chained PDUs Supported on 1 IP			~	~	~	~	
Free Management Software			~	~	~	~	
SNMP Capability V2 / V3			~	~	~	~	
Phase Balance % for 3-Phase PDUs			~	~	~	~	
Temp., Humidity, Smoke & Door Sensors			~	~	~	~	
RCM (Residual Current Monitoring Module)			~	~	~	~	
Door Mount PDU Panel w/ 4.3" Color LCD			~	~	~	~	
Wifi Kit (Supports Max. 32 Daisy Chained PDUs)			~	~	~	~	
Local Meter		~	~	~	~	~	
Resettable Fuse / Hydraulic MCB	*	~	~	~	~	~	
ELCR / Surge Protector / EMI Filter	*	~	~	~	~	~	
Tool-less Mounting for Vertical PDU	~	~	~	~	~	~	
0U / 1U / 2U Form Factors	~	~	~	~	~	~	
Operating Temperature -5 to 60°C	~	~	~	~	~	~	
1-Phase : 230V / 208V / 110V	~	~	~	~	~	~	
1-Phase Dual Feed: 230V / 208V / 110V	~	~	~	~	~	~	
3-Phase : 400V / 208V	~		~	~	~	~	
3-Phase Dual Feed: 400V / 208V	~		~	~	~	~	
Outlet: US NEMA / C13 / C19 / UK / SCH / FR	~	~	~	~	~	~	
Lockable IEC	~	~	~	~	~	~	
Fused IEC	~	~	~	~	~	~	
Custom PDUs on Request	~	*	~	✓	~	~	





Accessories

Lockable IEC Outlet PDU

- Secure plugs and prevent accidental disconnection
- Compatible to generic IEC cords and hence cost saving in locking cables



Individually Fused IEC Outlet PDU

- Prevent an overload of the active equipment
- Avoid short circuiting the entire IEC outlet PDU



Temp. & Humid. Sensor Temp. Sensor

- External sensor with 2M or 4M cord
- · Plug & Play
- Low profile design with magnetic base for easy affixing to the cabinet
- Pair of sensors can be connected to one single W series PDU meter

IG-TH01-2M / 4M IG-T01-2M / 4M



Surge Protector EMI Filter

Surge Protector:

- Enhances the device protection
- Grounds unwanted voltages above safe threshold

EMI Filter:

- · Maintains power stability
- Suppresses conducted interference on a signal / power line



Colored Power Cords

• Enhance cable management and visualize power sources

C13 - C14 6ft cables :

EC-6PC1314-B Blue
EC-6PC1314-R Red
EC-6PC1314-O Orange
EC-6PC1314-G Light Grey

C13 - C14 10ft cables :

EC-10PC1314-B Blue EC-10PC1314-R Red EC-10PC1314-O Orange EC-10PC1314-G Light Grey



C19 - C20 6ft cables: EC-6PC1920-B Blue EC-6PC1920-R Red

IEC Secure Sleeves

Sleeve attached to C14 power cord inlet: IPP-SS-C13 (pack of 200)

Sleeve attached to C20 power cord inlet: IPP-SS-C19 (pack of 100)

- Secure the power cord connections to the PDU IEC outlets
- Simple and cost efficient



IPP-SS-C13 IPP-SS-C19





ATS Automatic Transfer Switch

- Power redundancy for single corded devices
- Highly efficiency for multiple devices
- 230V / 208V / 110V

Details http://www.austin-hughes.com/infrapower/single-phase/ats

There are 3 connection ways - Daisy Chain , Star , Mixed.

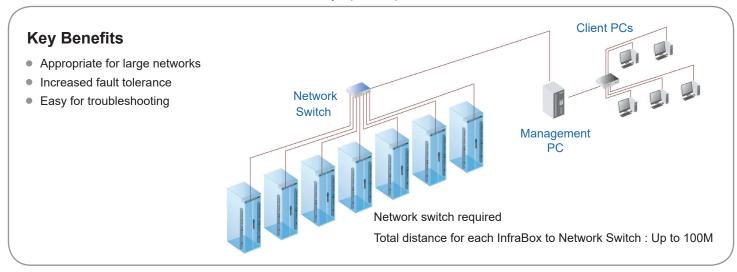
Which connection users apply is related to the site scale, environment and users' requirements.

< I > Daisy Chain Connect all InfraBoxes by Cat5/6 cable, and no any network switch required

Key Benefits Simple connection No network switch required Appropriate for small networks Management PC Quantity of InfraBox / Rack : Up to 50 Total distance in daisy chain : Up to 100M

< II > Star

Connect to network switch by a point-to-point connection

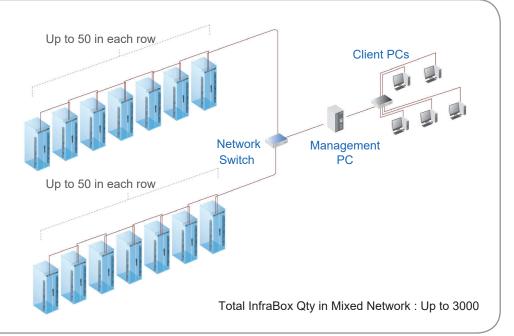


< III > Mixed

Combining daisy chain with star connection

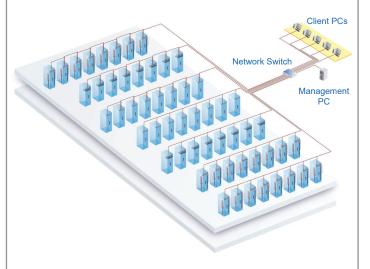
Key Benefits

- Most effective and practical for large scale of networks
- Take all advantages of Daisy Chain and Star connection
- Flexible to meet a variety of network environments and needs



< I > Data Center

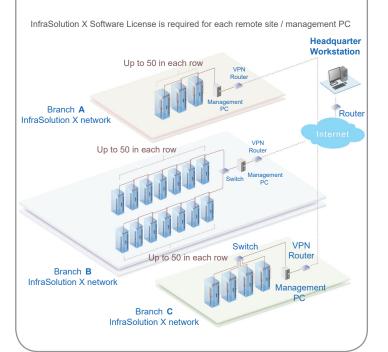
By mixed connection, InfraSolution X can be scalable up to 3000 racks. X-2000 InfraBoxes can be coexisted in the same network. Users are enabled to manage and remotely access all racks under a centralized and user friendly GUI.



- 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

< III > Branches

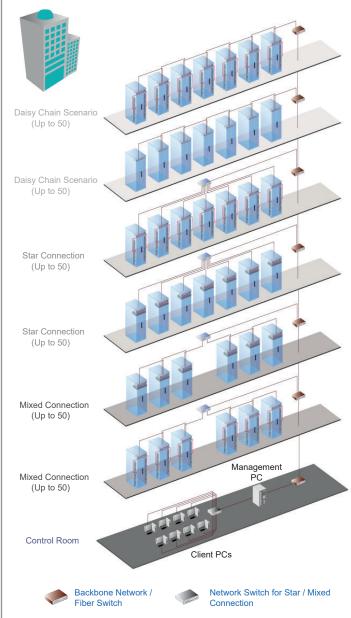
For a global or scalable company, it is vital to remote access and monitor the network of their nationwide and worldwide branches. InfraSolution X provides an ideal solution to keep an eye on rack access security and environmental condition.



< II > Intelligent Building

It is essential for a Multi-Storey Intelligent Building to be applied with a centralized management system for the building's mechanical and electrical equipment such as security, power, ventilation, and lighting systems, etc.

InfraSolution X system allows equipment to be distributed throughout a building simply by deploying 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 problem for long distance between InfraBoxes can be solved by applying network hubs with repeater function.



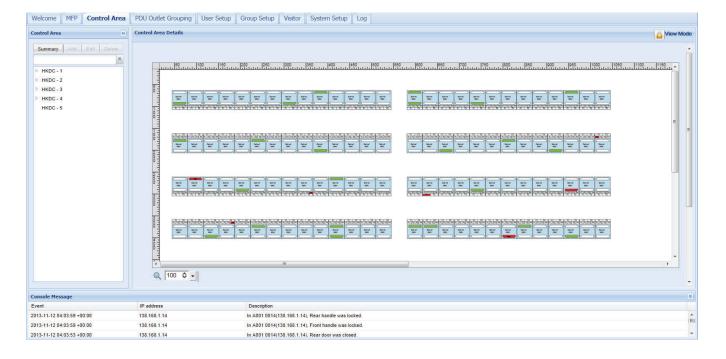
Setup Scenario in the whole Intelligent Building

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

Infra Solution $^{\circ}$ 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 to secure the rack access control, and connect a variety of sensors to provide an environmental monitoring solution. To enhance the functionality, up to 1920 x kWh PDU / 960 x Fan Unit can be monitored through InfraSolution X Manager as well. Up to 100 concurrent users can access the management software remotely to achieve the demand of multi-user / multi-tasking in nowadays' time sharing data center operation.





Features		X-ISM
Capacity	InfraBox Concurrent User	3000 100
System Setup	Backup / Restore Setting Time Rule Setting Alarm Mail Server Setting Audio and Visual Alarm Output Setting	<i>V V V</i>
Cabinet Overview Door	Status of Door, PDU, Sensor & Fan Unit Door Open by Remote Last Door Open & Close Record	v v v
Sensor / Peripheral	Status Monitoring Temp-Humid Alarm Threshold Setting	<i>V</i>
PDU	Energy Consumption kWh / Amp Monitoring Outlet Level Measurement PDU Outlet Schedule Outlet Switch ON / OFF Amp Alarm Threshold Setting Amp Rising / Low Alert Threshold Setting Temp-Humid Monitoring	V V V V V V
Fan Unit	CFM & Temp. Monitoring Unit CFM (fan speed) Setting Auto CFM Control Setting Individual Fan Kit ON / OFF Fan Unit ON / OFF	V V V
Chart / Event / Reporting	System & Device Event Reporting Temp-Humid Line Chart of InfraBox	V

Cabinet Icon

Cabinet icon has two layers, the layer one by default shows on all control area under view mode for status monitoring.

User can click cabinet icon to switch to layer two.

Layer one



P1 P2 P3 P4 : PDU status

- P = PDU is enabled & connected
- = PDU is enabled BUT disconnected OR = PDU is on alarm status
- P = PDU is disabled

F1 F2 : Fan unit status

- F = Fan unit is enabled & connected
- = Fan unit is enabled BUT disconnected OR
- = Fan unit is on alarm status
- = Fan unit is disabled

Layer two



S1 S2 : TH sensor status

- S = sensor is enabled & connected
- = sensor is enabled BUT disconnected OR = sensor is on alarm status
- S = sensor is disabled

S3 S4 : Smoke & shock sensor status

- = sensor is enabled & connected
- 도 = sensor is on alarm status
- S = sensor is disabled

S5 S6 : Water sensor status

- S = sensor is enabled & connected
- = sensor is on alarm status
- S = sensor is disabled

Door status



- ← - Door close status in white
- Door open status in green



- Door open overdue status in red (show overdue time)
- Door alarm status in red (unauthorized open)

Connection status



Normal connection status (color in blue)



Disconnection status (color in red)

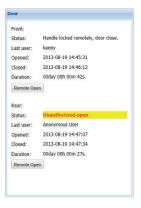


Non-configure status (color in grey)

Functions

Individual Cabinet Door

- >> Door open by remote
- >> View the record of last door open & close record



PDU

- >> Status
- >> PDU / Temp + Humid Setting
- >> Outlet Schedule
- >> Outlet Switch ON / OFF



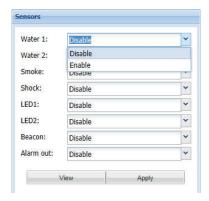
Fan

- >> Status
- >> Fan Unit Setting
- >> Temp. Setting



Sensor / Peripheral

- >> Sensor Status (provided by CA view mode)
- >> Sensor Setting



Device & Event Log

Devices: System:

- >> Cabinet
- >> Console
- >> Door Access
- >> Control Area
- >> Fan
- **>>** MFP
- **>>** PDU
- >> Outlet Grouping
- >> Sensors
- >> System Setup
- >> T/H Sensor
- >> User
- >> User Activity
- >> User Group
- >> Visitor

>>> Door & Cladding - Options

Front / Rear Door





Steel Vented

Ventilated infill area w/ single point handle lock



■ Fully Perforated 2 Co-location

Glass or steel door available w/ single point handle lock ** Individual key lock

option





Steel Vented

Ventilated infill area



Fully Perforated 2 Co-location

Glass or steel door available w/ single point handle lock

** Individual key lock option

Side Panel



Fully Perforated Split

Allows heat exhaust from high density equipment

sr only



Allows heat exhaust from

NSR only

Fully Perforated high density equipment

Top Cover



Plain Top

Ideal for air-blanked racks



Fan Top

The ventilation design enhances cooling capabilities by top fan tray

Standard Color

- Black (RAL 9005)
- White (RAL 9016)
- ** Custom color on request



■ Fully Perforated Door

- Door ventilation up to 80% perforated area
- Stylish hexagon pattern





Based on measurements at multiple data centers, more than 50% of valuable conditioned air cannot reach the air intake of IT equipment due to unsealed openings. Hence, the aisle containment associated with an extensive range of sealing components is essential for IT equipment reliability.

InfraRack is designed to enhanced thermal management in data center by creating a one-way path for airflow that eliminates the mixing of hot and cold air. An ideal data center environment is given with the use of Air Blanking Panels and Seal Kits in the aisle containment and server racks.



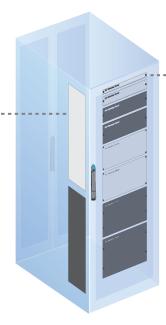


Full Height Air Blanking Panel Front left & right side

- · Used to fill in open spaces on racks to maintain a proper airflow
- · Reduce the hot air recycling from active equipment into cold aisle
- · Made of steel for strength and durability
- · Black or White color

Part no.: ABP-V42U-SR ABP-V45U-SR ABP-V47U-SR

> ABP-V42U-NSR ABP-V45U-NSR ABP-V47U-NSR





Tool-less Air Blanking Panel, pc

- · Quick snap-in and release by turning fasteners
- EIA-310-D compliant for 19" equipment
- · Rounded design eliminates sharp corners
- · Plastic for enhanced aesthetics & light weight
- Steel for strength & 1 ~ 8U height selection
- Plastic Panel: Height 1U

Color - Dark

• Steel Panel : Height - 1U / 2U / 3U / 4U / 5U / 6U / 7U / 8U

Color - Black or White

Part no.:

ABP-1P (Plastic)

ABP-1/2/3/4/5/6/7/8 (Steel)



Bay Seal Kit, pc

- · Seal spacing between two bayed racks without side panels
- · Eliminate bypass air from front to rear
- Designed for front only

Part no.: SSK-42U SSK-45U **SSK-47U**

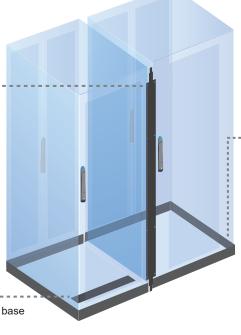




Front Bottom Seal Kit, pc

- Seal spacing between the floor and rack base
- · Eliminate bypass air
- · Designed for front only

Part no.: BSK-SR





Rack to Floor Seal Kit, set of 2

- · Seal spacing between the floor and rack base
- · Eliminate bypass air
- · Only available for rack with casters
- Front and rear seal kit for each bayed rack
- · Left and right side seal kit for the row end racks

PSK-600W-SR (front & rear) PSK-800W-SR (front & rear)

PSK-1000D-SR (left & right)

PSK-1200D-SR (left & right)

PSK-600W-NSR (front & rear)

PSK-800W-NSR (front & rear)

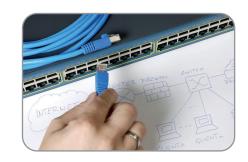
PSK-1000D-NSR (left & right)

PSK-1200D-NSR (left & right)

>>> Cabling - 600W

The primary purpose of cable management is to maintain the integrity of facilities installation, upgrades & serving of the system. As the number of IT components within each rack continues to increase, so do the number of power and data cables.

Recognizing these challenges, Austin Hughes responded with a comprehensive selection of optional components that allows users to pick the ideal cable management solution for their particular IT environment.





Side Partition with Cable Brush, pc

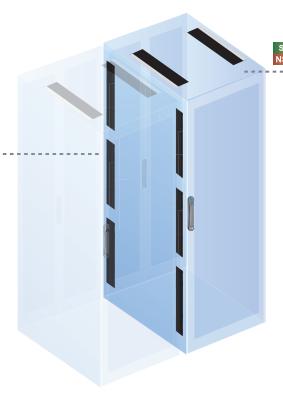
- · Ideal for bayed racks
- Cable entry size: 55 x 500 mm
- Allow cable passage to adjacent racks
- · Hole contains brushes to control airflow

Part no. : BVP-4210-SR / 4212-SR BVP-4510-SR / 4512-SR

> BVP-4710-SR / 4712-SR BVP-4210-NSR / 4212-NSR

> BVP-4510-NSR / 4512-NSR

BVP-4710-NSR / 4712-NSR



Top Cable Entry with Brush front & rear end

- Cable entry size : 55 x 500 mm
- Top brushed cover prevents undesirable dust and hot air recirculation

Part no. : TCB-2E



Ring Cable Manager, pair

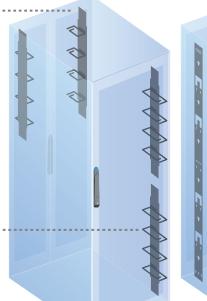
• Size: 120 x 1023 x 100 mm

• 120mm cable ring x 4

Material : Steel

Positioned on the rear

Part no.: RCM-120





Cable Management Panel, pc

• Handle big amount of cabling

Part no.: CMP-1B (1U)

CMP-2B (2U)

Full Height Cable Tray set of 2 sides

• Width : 75 mm

Part no. : CT-42U (42U)

CT-45U (45U)

CT-47U (47U)



Ring Cable Manager, pair

• Size: 180 x 1023 x 100 mm

• 180mm cable ring x 4

Material : Steel

· Positioned on the front

Part no.: RCM-180

SR NSR

Top Cable Entry with Brush front & rear end

• Cable entry size: 55 x 500 mm

• Top brushed cover prevents undesirable dust and hot air recirculation

Part no.: TCB-2E



Side Partition with Cable Brush, pc

- · Ideal for bayed racks
- Cable entry size : 55 x 500 mm
- · Allow cable passage to adjacent racks
- · Hole contains brushes to control airflow

Part no. : BVP-4210-SR / 4212-SR

BVP-4510-SR / 4512-SR

BVP-4710-SR / 4712-SR

BVP-4210-NSR / 4212-NSR BVP-4510-NSR / 4512-NSR

BVP-4710-NSR / 4712-NSR





- Cable entry size: 110 x 500 mm
- Top brushed cover prevents undesirable dust and hot air recirculation
- · Not applicable to 600 mm deep rack

Part no.: TCB-2S



Full Height Cable Brush left & right side

- Brush width: 100 mm
- Provide proper airflow within the rack while allowing cables to pass through

Part no. : VCB-42U VCB-45U VCB-47U

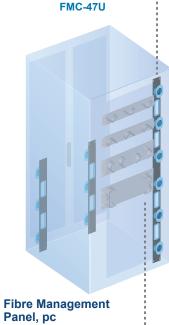


Material : Steel / Plastic

· Positioned on the front or rear

Part no. : FMC-42U

FMC-45U



Maintain a neat and organized cable layout

Part no.: FMP-2B (2U) FMP-3B (3U) FMP-4B (4U)



Cable Ring, pack of 10

• Size: 88 x 120 mm

Rigid structure

Material : Steel

Positioned on the rear
 Part no.: CMR-120P

5

0

5





• Size: 88 x 180 mm

Rigid structure

• Material : Steel

· Positioned on the front

Part no.: CMR-180P



• Width : 150 mm

Part no.: CT-42U-W150 (42U)

CT-45U-W150 (45U)

CT-47U-W150 (47U)



Handle big amount of cabling

Part no.: CMP-1B (1U)

CMP-2B (2U)



• Provide an organized cable system

Material : Plastic

• Depth : 105 mm

Part no. : FG-40U (42U)

FG-45U (45U/47U)

Austin Hughes solutions provide data center managers and administrators instant secure, local and remote access control to mission critical equipment. Our leading edge CyberView LCD console drawer and KVM Solutions provide the widest range, available on the shortest lead-times in the market today whilst ensuring capital equipment and software management costs are kept to an absolute minimum.









REACH

cUL certified for specific models



LCD Console Drawer



CyberView LCD console drawers completely fulfill customers' needs emerged in today's market sector via different series such as "F" 1080p, "W" widescreen and "RKP" enhanced version. 1U Dual Slide drawer, SUN and MAC solutions available



CyberView [™] LCD Console Drawer	F117	W119	RKP117 / 119	D117 / 119
Panel Size	17"	19"	17" / 19"	17" / 19"
U Height	1U	1U	1U	1U (Dual Slide)
Resolution	Full HD 1080p	1440 x 900	1280 x 1024	1280 x 1024
Brightness	300 cd/m2	300 cd/m2	250 cd/m2	250 cd/m2
VGA	~	✓	✓	~
DVI	~	✓	option	option
HDMI	option	option	option	option
Audio	option	option	option	option
KVM Integration	~	~	~	~
	option	option	option	option

Rackmount KVM



Austin Hughes has expanded its range of KVM solutions. Including the new USB Hub KVM and DVI-D KVM, there are various KVM series suitable for different customer requirements. Besides, we offer KVM extender for KVM usage enhancement in existing customer environment





DB-15 KVM



DVI-D KVM



USB Hub KVM



offer KVM extender for KVM usage enhancement in existing customer environment.										
C yber View [™] KVM Family	Matrix Cat6 KVM	Combo Cat6 KVM	Matrix DB-15 KVM	Combo DB-15 KVM	DVI-D KVM	USB Hub KVM				
KVM Port					DVI + USB					
Port #	32 / 16	32 / 16 / 8	16 / 8	16 / 8	12	16 / 8				
1920 x 1080 Support	~	~	~	~	~	~				
1920 x 1200 Support			~	~	~	~				
Server-side KB / MS	USB / PS2	USB / PS2	USB / PS2	USB / PS2	USB	USB				
Server-side Video	VGA / DVI	VGA / DVI	VGA	VGA	DVI-D	VGA				
Server-side Audio					Stereo					
USB Device Port						2 x USB2.0				
Max. Distance (to Server)	40M	40M	4.5M	4.5M	4.5M	4.5M				
Cascade Level	8	8	8	8						
On-Screen Menu	~	~	~	~		~				
Simultaneous Users (max. 4)	~		~							
IP Access Option	~	~	~	~		~				
Multi-user Profile	~	~	~	~		~				
1U Standalone KVM	~	~	~	~	~	~				
KVM Rear Kit for LCD Console Drawer	~	~	~	~	✓	~				

Cabling	
TCB-2E	Top cable entry w/ brush, front & rear end
CMP-1B CMP-2B	1U cable management panel 2U cable management panel
BVP-4210-SR	Side partition w/ cable brush, for SR 42U 1000D rack
BVP-4212-SR	Side partition w/ cable brush, for SR 42U 1200D rack
BVP-4510-SR	Side partition w/ cable brush, for SR 45U 1000D rack
BVP-4512-SR	Side partition w/ cable brush, for SR 45U 1200D rack
BVP-4710-SR	Side partition w/ cable brush, for SR 47U 1000D rack
BVP-4712-SR	Side partition w/ cable brush, for SR 47U 1200D rack
BVP-4210-NSR	Side partition w/ cable brush, for NSR 42U 1000D rack
BVP-4212-NSR	Side partition w/ cable brush, for NSR 42U 1200D rack
BVP-4510-NSR	Side partition w/ cable brush, for NSR 45U 1000D rack
BVP-4512-NSR	Side partition w/ cable brush, for NSR 45U 1200D rack
BVP-4710-NSR	Side partition w/ cable brush, for NSR 47U 1000D rack
BVP-4712-NSR	Side partition w/ cable brush, for NSR 47U 1200D rack
600W Rack	
RCM-180 RCM-120	Ring cable manager on the front, $180 \times 1023 \times 100$ mm, pair Ring cable manager on the rear, $120 \times 1023 \times 100$ mm, pair
CT-42U	42U full height cable tray, set of 2 sides, 75 mm wide
CT-45U	45U full height cable tray, set of 2 sides, 75 mm wide
CT-47U	47U full height cable tray, set of 2 sides, 750 mm wide
800W Rack	
CMR-180P CMR-120P	Cable Ring on the front, 88 x 180 mm, pack of 10 Cable Ring on the rear, 88 x 120 mm, pack of 10
FG-40U	Finger guide for 42U rack, set of 2 sides
FG-45U	Finger guide for 45U / 47U rack, set of 2 sides
VCB-42U	42U full height cable brush, left & right side
VCB-45U	45U full height cable brush, left & right side
VCB-47U	47U full height cable brush, left & right side
VCP-42U	42U cable cover panel, pair
VCP-45U	45U cable cover panel, pair

47U cable cover panel, pair

42U full height cable tray, set of 2 sides, 150 mm wide

45U full height cable tray, set of 2 sides, 150 mm wide

47U full height cable tray, set of 2 sides, 150 mm wide

Top cable entry w/ brush, left & right side

1U tool-less air blanking panel, plastic

42U vertical fibre management channel, pair

45U vertical fibre management channel, pair

47U vertical fibre management channel, pair

Cooling Far	unit - Basic Model
TF-02 TF-04 TF-06	Basic top fan tray, 2 fans Basic top fan tray, 4 fans Basic top fan tray, 6 fans
F-1.3 / 1.6 / 1.9	Basic 1U fan tray, 3 / 6 / 9 fans
F-33.9A F-33.9B	Basic 33U door mount extract fan panel, 9 fans, for rear door Basic 33U door mount intake fan panel, 9 fans, for front door
F-66.4	Basic raised floor mount fan unit, 4 fans
Shelf, 19" r	nounting
S37 S44 S58 S70	Fixed shelf, 370 mm deep, 50 kg loading Fixed shelf, 440 mm deep, 50 kg loading Fixed shelf, 580 mm deep, 50 kg loading Fixed shelf, 700 mm deep, 50 kg loading
HS44 HS58 HS70 HS80	Heavy duty fixed shelf, 440 mm deep, 100 kg loading Heavy duty fixed shelf, 580 mm deep, 100 kg loading Heavy duty fixed shelf, 700 mm deep, 100 kg loading Heavy duty fixed shelf, 800 mm deep, 100 kg loading
TS44 TS58 HTS70	Sliding shelf, 440 mm deep, 30 kg loading Sliding shelf, 580 mm deep, 30 kg loading Heavy duty sliding shelf, 700 mm deep, 100 kg loading
MS19 MS40	Cantilever shelf, 190 mm deep, 20 kg loading Cantilever shelf, 400 mm deep, 20 kg loading
Drawer	
TSD-2U TSD-4U	2U lockable drawer, 580 mm deep, 30 kg loading 4U lockable drawer, 580 mm deep, 30 kg loading
RK-1e / b RK-2e / b	1U notebook type keyboard drawer with KVM options 1U short depth, notebook type keyboard drawer
Others	
BK-M10 BK-M6 SR-BK NSR-BK	Top baying bracket x 2, for SR rack Top baying bracket x 2, for NSR rack Side baying screw set x 4, for SR rack Side baying bracket x 4, for NSR rack
M6	M6 screw set, pack of 50

Air Blanking

VCP-47U

TCB-2S

FMC-42U

FMC-45U

FMC-47U

ABP-1P

SSK-47U

PSK-600W-SR

PSK-800W-SR

PSK-1000D-SR

PSK-1200D-SR

PSK-600W-NSR

PSK-800W-NSR

PSK-1000D-NSR

PSK-1200D-NSR

CT-42U-W150

CT-45U-W150

CT-47U-W150

10 tool-1035 all blatiking pariot, plastic
1U tool-less air blanking panel
2U tool-less air blanking panel
3U tool-less air blanking panel
4U tool-less air blanking panel
5U tool-less air blanking panel
6U tool-less air blanking panel
7U tool-less air blanking panel
8U tool-less air blanking panel
42U SR full height air blanking panel, front left & right side
45U SR full height air blanking panel, front left & right side
47U SR full height air blanking panel, front left & right side
42U NSR full height air blanking panel, front left & right side
45U NSR full height air blanking panel, front left & right side
47U NSR full height air blanking panel, front left & right side
0 01 ,
Front bottom seal kit
42U bay seal kit, for bayed SR rack
45U bay seal kit, for bayed SR rack

47U bay seal kit, for bayed SR rack

600 mm wide SR rack to floor seal kit, front & rear side

800 mm wide SR rack to floor seal kit, front & rear side

1000 mm deep SR rack to floor seal kit, left & right side

1200 mm deep SR rack to floor seal kit, left & right side

600 mm wide NSR rack to floor seal kit, front & rear side

800 mm wide NSR rack to floor seal kit, front & rear side

1000 mm deep NSR rack to floor seal kit. left & right side

1200 mm deep NSR rack to floor seal kit, left & right side



GK

CuB-ET10

CuB-42II

CuB-45U

CuB-47U

Proximity Smartcard, pack of 10 (ISC-P10)

Proximity 26-bit format

Grounding kit, set of 4

- Single card for multiple application
- Custom card layout available

Insulated Earth Terminal (MOQ: pack of 5)

42U copper bus grounding bar, pc, w/ insulator x 3

45U copper bus grounding bar, pc, w/ insulator x 3

47U copper bus grounding bar, pc, w/ insulator x 3



MiFARE Smartcard, pack of 10 (ISC-M10)

- MiFARE 26-bit format
- Single card for multiple application
- Custom card layout available



Individual Key Lock (ISK-C051)

- Up to 500 individual key-locks available
- Set of 2 for front & rear door



Unique Key Lock (ISK-UKL)

- Dedicated to single project / customer regionally
- For project size over 500 racks



Warranty Upgrade

Extension from 2 years to 5 years



REACH



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. These solutions include UltraRack IT server rack, InfraRack smart rack, InfraPower rack PDU & ATS, InfraCool rack cooling systems, InfraGuard rack sensors and peripherals, InfraSolution rack access control and CyberView rack LCD KVM switches. We also offer industrial & commercial IT products, such as UltraView professional displays and Mini IP solutions.

Austin Hughes has ISO14001 and ISO9001 approved design, manufacturing, assembly, and test facilities. We support a worldwide customer base through our global locations.



As a leading global IT manufacturer, Austin Hughes provides TAA-compliant data center solutions, manufactures and assembles products in strategic TAA-certified locations.





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