U**ltraRack**®

IT Server Racks

SR-1012 series 1000W Heavy-duty Rack

AUSTIN®
HUGHES

UltraRack SR 1012 series rack is specifically designed to deploy Cisco Nexus 7000 Series switches in data center. It provides a complete and optimized infrastructure solution for fully configurated Cisco Nexus 7000.

Additional interior space achieves the clearance requirements for front, rear and sides of the Nexus models. Superior cable management, enhanced framework, diversified air duct and blanking options ensure proper airflow for **maintaining Nexus 7000 switches in long-lasting high performance**.

The UltraRack SR 1012 racks integrates seamlessly with all Austin Hughes infrastructure equipment, including InfraAisle Containments, InfraCool Fan Units, InfraPower PDUs, InfraSolution SmartCard handles, InfraGuard environmental sensors, LED Light Bar, CyberView KVM and LCD drawers. Rack models are available in three heights to match site requirements. Apart from the Cisco Nexus 7000 series, it supports a mix of patch panels and other high density switches.

RoHS2 COMPLIANCE **REACH** **Green Production**

The SR series rack is recognized as RoHS2 and REACH compliance by SGS accredited testing laboratory.

ISO-Certified
9001 **14001**

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

1200 kg **2640 lb**

Designed for heavy-duty application, the SR series rack has passed the loading test.

Key Highlights

- Rigid frameworks (with 2.0mm steel) supports up to 1200kg load capacity
- 1000mm width provides sufficient space for managing your switch and cables
- 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
- Integral cable management (Finger Guide / Cable Ring / Cable Tray) and large pathways for cable routing
- Top cable entries with brushes allow cables to easily enter or exit the rack
- Full height cable brushes not only provides air blanking features, but also allows easy cabling and equipment setup
- Variety airflow duct options perfectly guide the airflow circulation for different Nexus models
- Easy to deploy and adaptable to Aisle containment to achieve an efficient airflow management
- Quick release mechanism design for door and split side panel
- Tool-less adjustment for front and rear 19" rails
- Universal-fit platform for multiple brands of servers and 19" rackmount equipment

Total Rack Solution

>>> Cabling

- Framework allows multi-dimensional cable pathways
- Additional interior space for cable management
- Numerous efficient cabling options allows Integral cable management

>>> Airflow

- Various airflow ducts ensure proper airflow for Cisco Nexus 7000 models
- Front / side air blanking panels prevent air recirculation by occupying unused rack space
- Rack Seal Kits prevent air loss underneath the rack and the gap between racks

>>> Cooling

- EXD Door removes heated air and prevents the build up of heated air inside the rack
- InfraCool basic and intelligent models provide various fan unit form factors for different cooling requirements

Standard Package / Size

Model No.		Width		Depth				Height			
				Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective (w/o casters)	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
42U	**SR-101242**	1000	39"	1200	47"	1128	44"	2035	80"	1955	77"
45U	**SR-101245**	1000	39"	1200	47"	1128	44"	2168	85"	2088	82"
47U	**SR-101247**	1000	39"	1200	47"	1128	44"	2257	89"	2177	86"

**Custom size on request

Standard Configuration

- Static Loading: 1200 kg / 2640 lbs
- Enhanced Framework w/ Cable Management Features
- Top Frame w/ Cable Entry Cut Out & Brush
- Bottom frame with cable entry cut out
- 19" Mounting Rail with Unit Marks, Front & Rear Pairs
- 150mm Wide Full Height Cable Tray, Pair
- Perforated Front & Rear Middle Split Doors w/ 3-pt Handle Lock
- Split Side Panel w/ Lock & Latch, Set of 2
- Heavy Duty Caster x 4, Adjustable Feet x 8
- Dynamic Eathing Kit
- M6 Screw Fixing, Pack of 50

Optional Accessories

Cabling
- Finger Guide for Front, Set of 2 Sides
- Cable Ring for Rear, 88mm x 150mm, Pack of 10
- Full Height Cable Brush, Pair
- Full Height Cable Tray, 150mm Wide, Pair
- 1U / 2U Cable Management Panel

Airflow
- Aisle Containment
- Side & Bottom Air Ducts specific for Nexus 7000
- Air Blanking Panels, 1U - 8U
- Side Air Blanking Panel, 1U / 2U
- Rack to Floor Seal Kit

Cooling
- Extract fan door w/ 10 fans, 1080CFM
- 33U door mount extract fan panel w/ 10 fans, 1080CFM

PDU
- InfraPower W Series Intelligent kWh PDU
- InfraPower MD Series Metered PDU
- InfraPower Basic PDU

Access Control
- InfraSolution X Networked SmartCard System
- InfraSolution S Standalone SmartCard Handle

KVM Screen
- CyberView KVM series
- CyberView LCD console drawer series

Color

- Standard : Black   (RAL 9005)
- Optional : Grey White (RAL 9002)

** Custom color on request

>>> PDU

- Intelligent kWh PDU for remote power management
- Metered / Basic PDU for cost efficient power distribution

>>> Access Control

- Standalone smartcard handles with an affordable price and easy installation
- Networked version enables complete smartcard rack access management with management software

>>> KVM & Screen

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

Standard Package

Top Brush Cover
front & rear end / left & right side

• 6 top cable entries with brushes
• Brush size : 110 x 500 mm
• Prevent undesirable dust and hot air recirculation

Standard Split

Quick access design for service from side panel

Fully Perforated Middle Split

Space-saving design for narrow aisle w/ 3-point handle lock

Fully Perforated Middle Split

Space-saving design for narrow aisle w/ 3-point handle lock

Modular Framework

Benefits

• Allow the flexibility for transport
• Convenient for rack relocation
• Quick access for service between racks
• Easy assembly designed for untrained users to install

Unobstructed airflow is critical to switch performance. One of the biggest challenges is how to match different airflow requirement of each specific Nexus 7000 switch model.

The SR-1012 rack is an ideal solution, whether your switch model air circulation design is front-to-back, bottom or side venting. Each Cisco model can intake and exhaust air properly by applying the corresponding SR-1012 air duct combination.

The **Infra Aisle** Containment with SR-1012 racks are designed to deploy Nexus switches and other IT equipment in a cool aisle data center environment. An ideal data center environment is given with the use of Air Blanking Panels, Seal Kits as well as Full Height Cable Brush in the aisle containment and server racks.

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
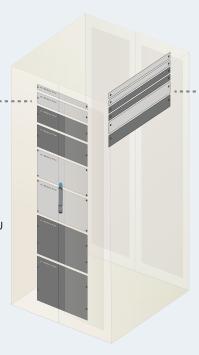- Plastic Panel : Height - 1U
                   Color - Dark
- Steel Panel   : Height - 1U / 2U / 3U / 4U / 5U / 6U / 7U / 8U
                   Color - Black or Grey white

  Part no. :
  ABP-1P (Plastic)
  ABP-1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 (Steel)

1U / 2U Side Air Blanking Panel Front left & right side

- Used to fill in open spaces on racks to maintain a proper airflow
- Made of steel for strength and durability
- Black or Grey white color

  Part no. : ABP-S1-1012
              ABP-S2-1012

Full Height Cable Brush, set of 2 sides

- Brush width after installation : 150 mm
- Provide proper airflow within the rack while allowing cables to pass through

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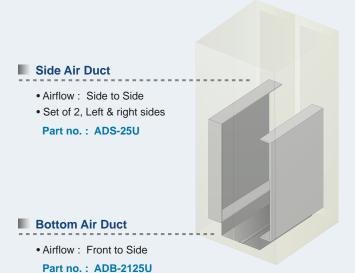   **VCB-45U**
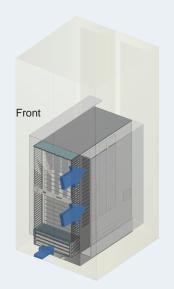   **VCB-47U**

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
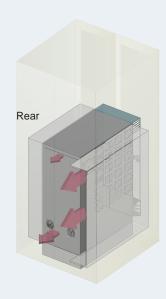- Left and right side seal kit for the row end racks

  Part no. :
  PSK-1000W-SR (front & rear)
  PSK-1200D-SR (left & right)

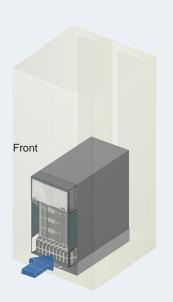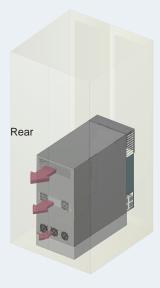**Air Ducts specifically designed for Cisco Nexus 7000**

Side Air Duct

• Airflow : Side to Side
• Set of 2, Left & right sides
  Part no. : ADS-25U

Bottom Air Duct

• Airflow : Front to Side
  Part no. : ADB-2125U

Front

Rear

Cisco Nexus 7018 (25U)

Bottom Air Duct

• Airflow : Bottom Front to Back
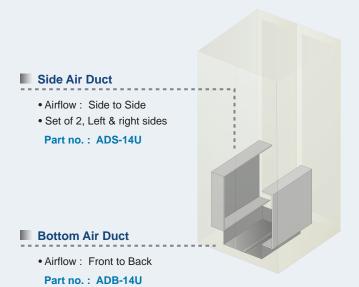 **Part no. : ADB-2125U**

Front

Rear
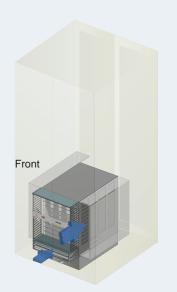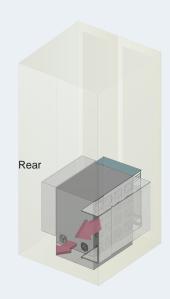
Cisco Nexus 7010 (21U)

Air Ducts specifically designed for Cisco Nexus 7000

Side Air Duct
- Airflow : Side to Side
- Set of 2, Left & right sides

  Part no. : ADS-14U

Bottom Air Duct
- Airflow : Front to Back

  Part no. : ADB-14U

Front

Rear

Cisco Nexus 7009 (14U)

Side Air Duct
- Airflow : Side to Back
- Set of 2, Left & right sides

  Part no. : ADS-7U

Front

Rear

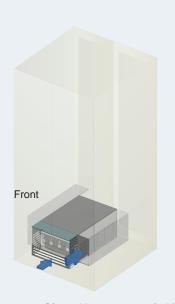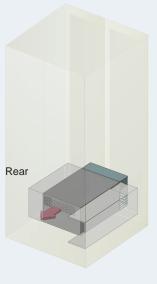**Cisco Nexus 7004 (7U)**

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.
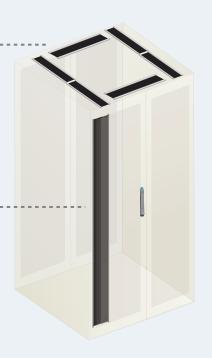
Top Cable Entry with Brush, set of 6 pcs

- Brush size : 110 x 500 mm
- Top brushed cover prevents undesirable dust and hot air recirculation
- Bundled for standard package

Full Height Cable Brush, set of 2 sides

- Brush width after installation : 150 mm
- Provide proper airflow within the rack while allowing cables to pass through

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

Full Height Cable Tray set of 2 sides

- Width : 150 mm
- Bundled for standard package

Part no. : CT-42U-W150 **(42U)**
        CT-45U-W150 **(45U)**
        CT-47U-W150 **(47U)**

Cable Ring, pack of 10

- Size : 88 x 120 mm
- Rigid structure
- Material : Steel
- Positioned on the rear
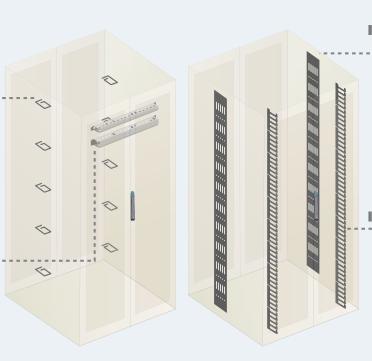
Part no. : CMR-120P

Cable Management Panel, pc

- Handle big amount of cabling

Part no. : CMP-1B **(1U)**
        CMP-2B **(2U)**

Finger Guide, set of 2 sides

- Provide an organized cable system
- Material : Plastic
- Depth : 105 mm
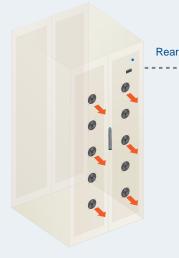
Part no. : FG-40U **(42U)**
        FG-45U **(45U / 47U)**

The biggest challenge in today's data center is thermal management, which is no surprise considering the average heat load generated per equipment rack has double in this century. Cooling the equipment in an enclosed rack has always been important.

Austin Hughes has been incorporating ventilation and cooling requirement. We can incorporate top rackmount or door mount fan units, rear extract fan door and intelligent fan models depending on your application.
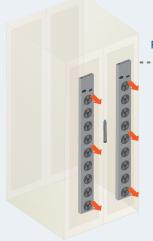
Rear

Extract Fan Door

- Remove heated air and prevent build-up of heated air inside the rack, which can cause equipment to overheat and shut down
- Provide a total of 1080 CFM peak exhaust airflow
- Front temp. LED w/ bundled temp. sensor x 1
- Fan ON / OFF by door switch for safety
- w/ 3-point handle lock
- Black or Grey white color

Part no. (middle split door) **: EXDS-42.10-VH**
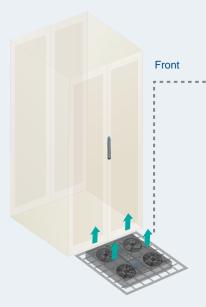**EXDS-45.10-VH**
EXDS-47.10-VH

Rear

33U Door Mount Extract Fan Panel

- Improve heat extraction from high density racks
- Front temp. LED w/ bundled temp. sensor x 1
- Easy installation with common tools
- Slim and light weight design at 3.9 kg / 8.6 lb only
- Designed for low noise and high airflow performance
- 9 fans (972 CFM)

Intelligent (Master) : MRF-33.9A
Intelligent (Slave   ) : RF-33.9A
Basic   : F-33.9A

Front

Raised Floor Mount Fan Unit

- Intake underfloor cold air into the aisle and rack
- Eliminate hot spots by proper airflow distribution
- Temp. LED w/ bundled temp. sensor x 2
- Individual fan switch x 4 for power and CFM control
- Easy installation without rack movement
- Designed for high airflow performance
- 4 fans (2172 CFM)

Intelligent : WF-66.4
Basic   : F-66.4

With today's increasing demand for power management solution, a complete suite of rack PDU models is required specifically to help data center IT managers meet their rapidly escalating power requirements.

Infra Power® provides a complete power management solution from Basic, Metered, Intelligent kWh, to Outlet Level intelligent kWh models. Our PDUs are also offered in many sizes and configurations depending on voltage, current, number and type of connections.

cUL certified for specific configurations

Details

Infra Power® **1-Phase PDU Family**	Monitored		Switched		Metered	-
	W	**Wi**	**WS**	**WSi**	**MD**	**Basic**
Outlet AMP - kWh Measurement		✔		✔		
Outlet Switch ON / OFF			✔	✔		
Hot-Swap Meter	✔	✔	✔	✔		
1.8" Color LCD	✔	✔	✔	✔		
Circuit Amp - kWh Measurement	✔	✔	✔	✔		
Temp-Humid Sensor port x 2	✔	✔	✔	✔		
16 PDU Levels in Single Daisy Chain	✔	✔	✔	✔		
One IP Access up to 16 PDU Levels	✔	✔	✔	✔		
SNMP Capability v2 / v3	✔	✔	✔	✔		
Free Management Software	✔	✔	✔	✔		
Lockable IEC Outlet Model	✔	✔	✔	✔	✔	✔
Individually Fused Outlet Model	✔	✔	✔	✔	✔	✔
63A Model (only for 230V PDU)	✔	✔	✔	✔		✔
Local Meter	✔	✔	✔	✔	✔	
Tool-less Mounting for Vertical PDU	✔	✔	✔	✔	✔	✔
0U / 1U / 2U Form Factors	✔	✔	✔	✔	✔	✔
Voltage 230V / 208V / 110V	✔	✔	✔	✔	✔	✔
Hydraulic Magnetic Circuit Breaker	✔	✔	✔	✔	✔	✔
Operating Temperature Range -5°C to 60°C	✔	✔	✔	✔	✔	✔
Outlet Types : IEC C13	✔	✔	✔	✔	✔	✔
IEC C19	✔	✔	✔	✔	✔	✔
IEC C13 + C19	✔	✔	✔	✔	✔	✔
IEC Lockable	✔	✔	✔	✔	✔	✔
IEC Individually Fused	✔	✔	✔	✔	✔	✔
NEMA	✔	✔	✔	✔	✔	✔
UK / UK + IEC	✔	✔	✔	✔	✔	✔
SCH / SCH + IEC	✔	✔	✔	✔	✔	✔

Colored PDU & Power Cords

Rackmount PDU

Rack level access security has become critically important for all data centers and server rooms. More and more IT managers have recognized this need and are upgrading their racks with smartcard access control. To meet the increasing needs, Austin Hughes offers the **InfraSolution®** - Integrated IT Access Control & Monitoring for Data Center.

Two InfraSolution versions for data center rack are provided :

InfraSolution® S   Rack Smartcard Access - Standalone   **Details**

InfraSolution® X   Rack Smartcard Access - Networked   **Details**

FC CE RoHS REACH

Comparison Table		InfraSolution® S Standlone	InfraSolution® X Networked
Key Hardware	Smartcard Handle	✔	✔
	Door Sensor	Optional	✔
	1U Control Box		✔
Compatibility	Proximity Smartcard	✔	✔
	MiFARE Smartcard	✔	✔
	SNMP for Client's BMS		✔
Handle Releasing	By Smartcard	✔	✔
	By Dual Card Authentication	✔	
	By Software Remote		✔
	By Mechanical Key	✔	✔
Software Features	Smartcard Authentication	✔	✔
	Smartcard / De-authentication	✔	✔
	Remote Handle Unlocking		✔
	Remote Monitoring		✔
	E-mail alarm		✔
	Detail Log for Reporting		✔
Integrated PDU	kWh Switched		✔
	kWh Monitored		✔
	Outlet kWh Switched		✔
Integrated Fan	Remote 33U Fan Panel		✔
	Remote 1U Fan Tray		✔
Environmental Sensors	Temp. + Humid.		✔
	Temp.		✔
	Smoke		✔
	Shock		✔
	Water		✔
	Flashing LED Beacon		✔
	LED light bar		✔

Proximity & MiFARE Compatible

PROXIMITY
SMARTCARD

MiFARE
SMARTCARD

LED for Clear Lock Status Indication

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.

cUL certified for specific models

LCD Console Drawer `Details`

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	✔	✔	✔	✔
IP Access	option	option	option	option

Rackmount KVM `Details`

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.

Cat6 KVM

DB-15 KVM

DVI-D KVM

USB Hub KVM

CyberView™ 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

CMP-1B	1U cable management panel
CMP-2B	2U cable management panel
CMR-120P	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
CT-42U-W150	42U full height cable tray, set of 2 sides, 150 mm wide
CT-45U-W150	45U full height cable tray, set of 2 sides, 150 mm wide
CT-47U-W150	47U full height cable tray, set of 2 sides, 150 mm wide
VCB-42U	42U full height cable brush, set of 2 sides
VCB-45U	45U full height cable brush, set of 2 sides
VCB-47U	47U full height cable brush, set of 2 sides

Cooling Fan Unit - Basic Model

F-33.9A	Basic 33U door mount extract fan panel, 9 fans, for rear door
F-66.4	Basic raised floor mount fan unit, 4 fans

Cooling Fan Unit - Intelligent Model

MRF-33.9A	Intelligent (Master) 33U door mount extract fan panel, 9 fans
RF-33.9A	Intelligent (Slave) 33U door mount extract fan panel, 9 fans
WF-66.4	Intelligent raised floor mount fan unit, 4 fans

Extract Fan Door

EXDS-42.10-VH	42U x 1000mm wide middle split extract fan door, w/ 10 fans
EXDS-45.10-VH	45U x 1000mm wide middle split extract fan door, w/ 10 fans
EXDS-47.10-VH	47U x 1000mm wide middle split extract fan door, w/ 10 fans

Air Duct

ADS-7U	7U	side air duct set for Cisco Nexus 7004
ADS-14U	14U	side air duct set for Cisco Nexus 7009
ADS-25U	25U	side air duct set for Cisco Nexus 7018
ADB-14U	3U	bottom air intake duct for Cisco Nexus 7009
ADB-2125U	3U	bottom air intake duct for Cisco Nexus 7010 / 7018

Drawer

TSD-2U	2U lockable drawer, 580 mm deep, 30 kg loading
TSD-4U	4U lockable drawer, 580 mm deep, 30 kg loading
RK-1e / b	1U notebook type keyboard drawer with KVM options
RK-2e / b	1U short depth, notebook type keyboard drawer

Air Blanking

ABP-1P	1U tool-less air blanking panel, plastic
ABP-1	1U tool-less air blanking panel
ABP-2	2U tool-less air blanking panel
ABP-3	3U tool-less air blanking panel
ABP-4	4U tool-less air blanking panel
ABP-5	5U tool-less air blanking panel
ABP-6	6U tool-less air blanking panel
ABP-7	7U tool-less air blanking panel
ABP-8	8U tool-less air blanking panel
ABP-S1-1012	1U Side air blanking panel, front left & right side
ABP-S2-1012	2U Side air blanking panel, front left & right side
VCB-42U	42U full height cable brush, set of 2 sides
VCB-45U	45U full height cable brush, set of 2 sides
VCB-47U	47U full height cable brush, set of 2 sides
PSK-1000W-SR	1000 mm wide rack to floor seal kit, front & rear side
PSK-1200D-SR	1200 mm deep rack to floor seal kit, left & right side

Others

TBK-1012	Top baying bracket x 2, for SR-1012 rack
M6	M6 screw set, pack of 50
GK	Grounding kit, set of 4
CLB-SD-IR-101	Rack LED light bar w/ IR sensor x 1
CLB-SD-IR-102	Rack LED light bar w/ IR sensor x 2
CuB-ET10	Insulated Earth Terminal (MOQ : pack of 5)
CuB-42U	42U copper bus grounding bar, pc, w/ insulator x 3
CuB-45U	45U copper bus grounding bar, pc, w/ insulator x 3
CuB-47U	47U copper bus grounding bar, pc, w/ insulator x 3

RoHS   REACH

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Founded in 1995, **Austin Hughes Electronics Ltd** is a design and manufacturing group that offers a broad range of solutions based around 19 inch rack mount technology. These solutions include InfraSolution remote access control and locking, InfraPower intelligent remote management power solutions, CyberView LCD Keyboard and KVM drawers, InfraCool intelligent remote cooling system, UltraRack IT server racks & InfraAisle cold aisle containment.

Austin Hughes has ISO14001 and ISO9001 approved design, manufacturing, assembly and test facilities in Hong Kong and China. Austin Hughes supports a worldwide customer base, through its global locations in the Americas, EMEA and APAC and through its extensive authorized channel partner support network.

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