

# UltraRack®

IT Server Racks



**SR-1012 series 1000W Heavy-duty Rack**



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 configured 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.

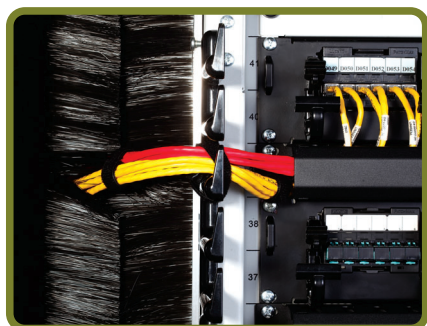
## Key Highlights

- 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

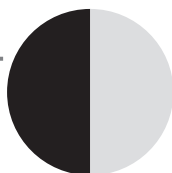
### Optional Accessories

- 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 : White ( RAL 9016 )

\*\* 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

### Standard Split

Quick access design for service from side panel



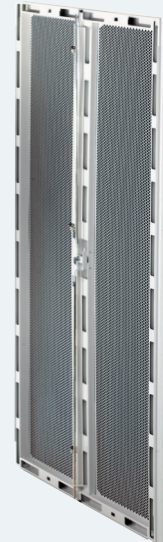
### Fully Perforated Middle Split

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



### 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



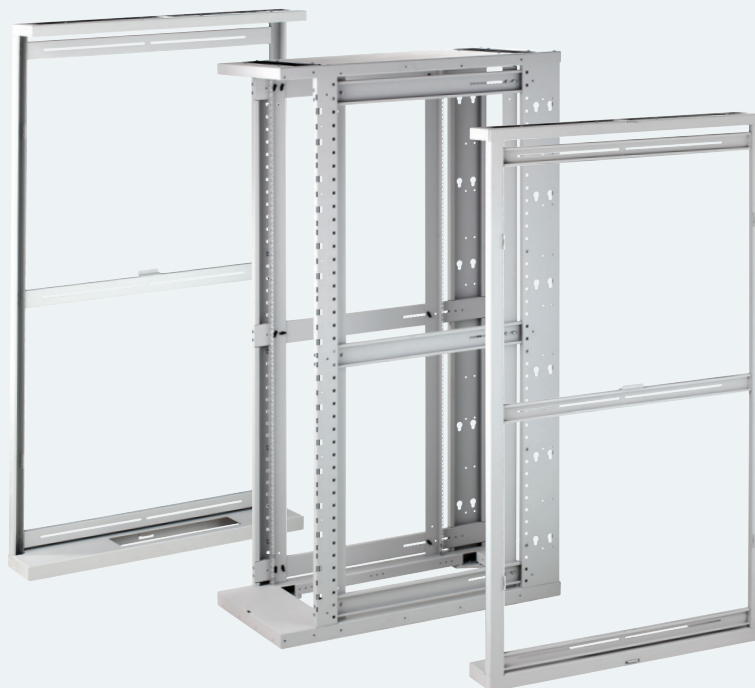
### Fully Perforated Middle Split

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 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 White color

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

**ABP-S2-1012**

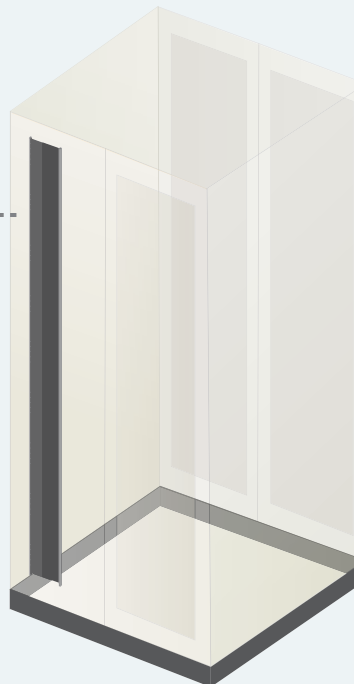
#### ■ Full Height Cable Brush, set of 2 sides

- 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

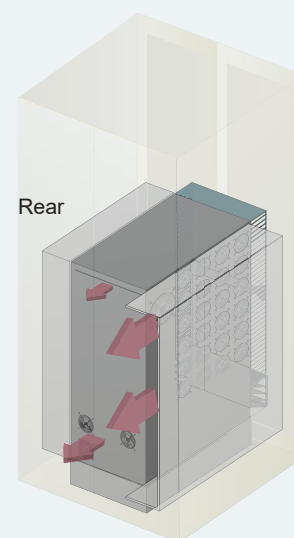
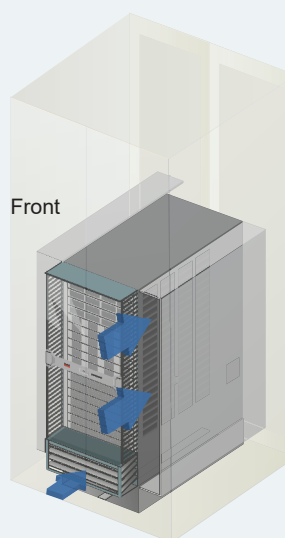
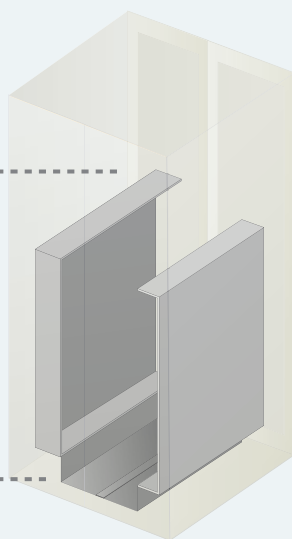
- Airflow : Side to Side
- Set of 2, Left & right sides

Part no. : ADS-25U

## ■ Bottom Air Duct

- Airflow : Front to Side

Part no. : ADB-2125U

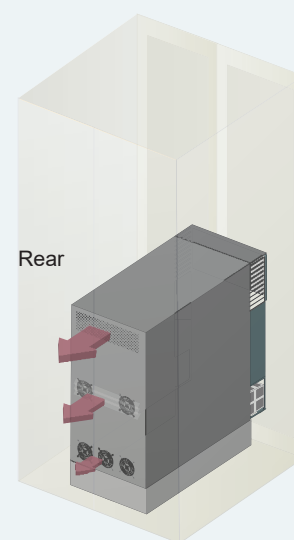
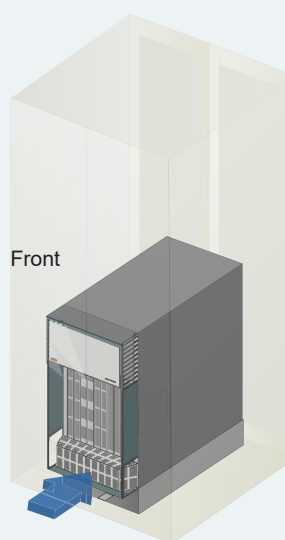
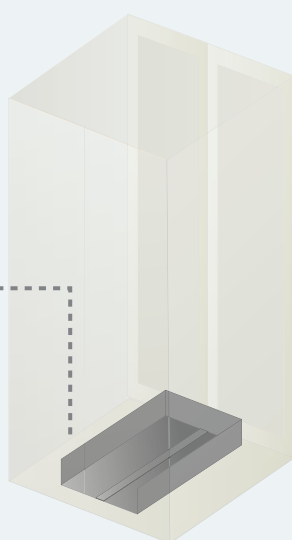


Cisco Nexus 7018 ( 25U )

## ■ Bottom Air Duct

- Airflow : Bottom Front to Back

Part no. : ADB-2125U



Cisco Nexus 7010 ( 21U )

Air Ducts specifically designed for Cisco Nexus 7000

■ Side Air Duct

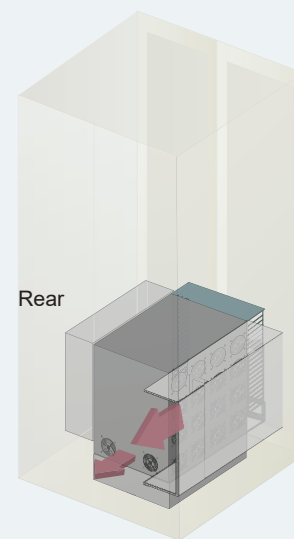
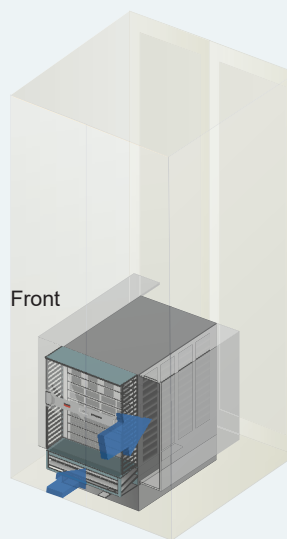
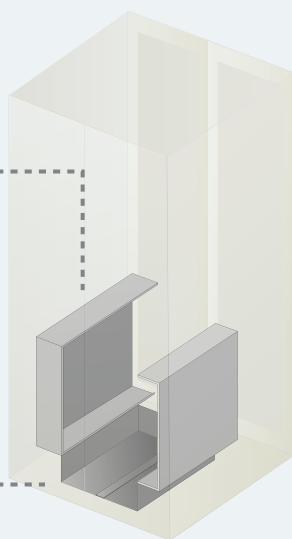
- Airflow : Side to Side
- Set of 2, Left & right sides

Part no. : ADS-14U

■ Bottom Air Duct

- Airflow : Front to Back

Part no. : ADB-14U

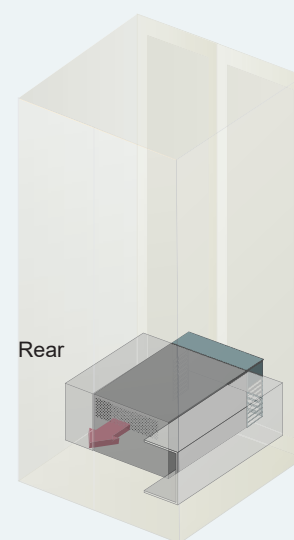
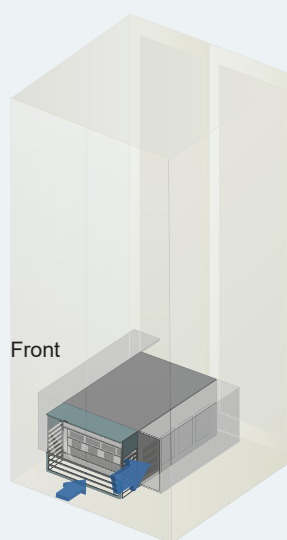
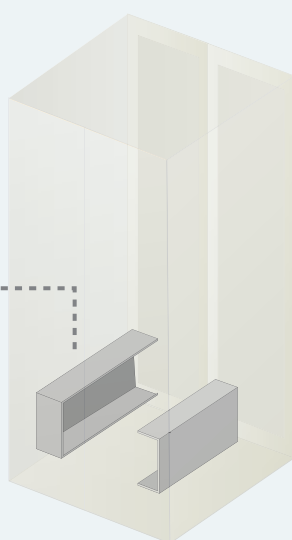


Cisco Nexus 7009 ( 14U )

■ Side Air Duct

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

Part no. : ADS-7U



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.



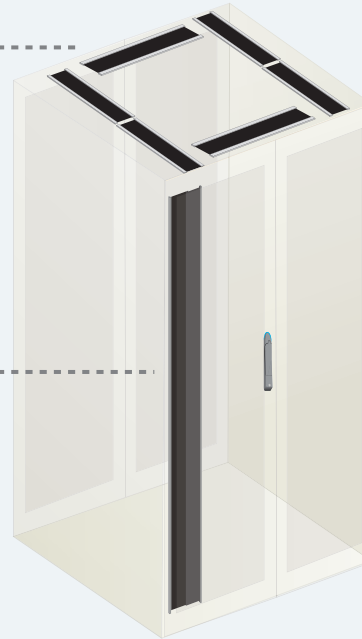
## ■ Top Cable Entry with Brush, set of 6 pcs

- 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



## ■ Cable Ring, pack of 10

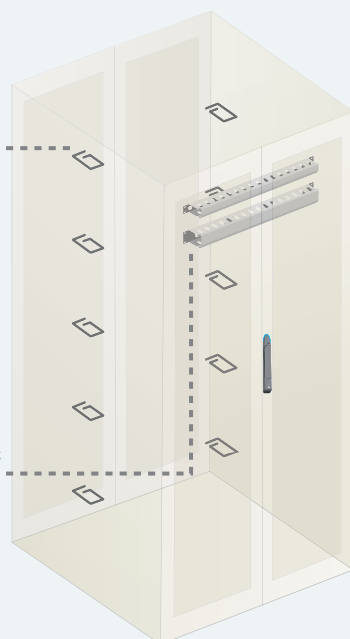
- Size : 88 x 120 mm
- Rigid structure
- Material : Steel
- Positioned on the rear

Part no. : CMR-120P

## ■ Cable Management Panel, pc

- Handle big amount of cabling

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



## ■ Full Height Cable Tray set of 2 sides

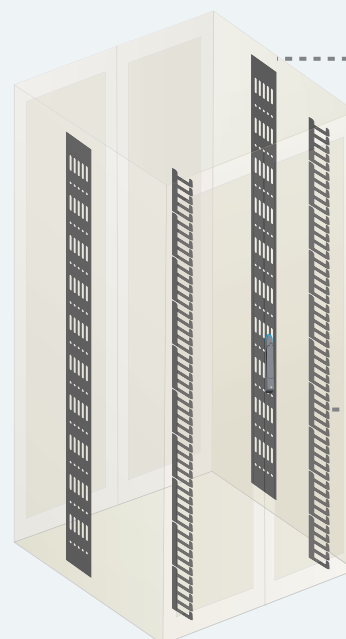
- Width : 150 mm
- Bundled for standard package

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

## ■ Finger Guide, set of 2 sides

- Provide an organized cable system
- Material : Plastic
- Depth : 105 mm

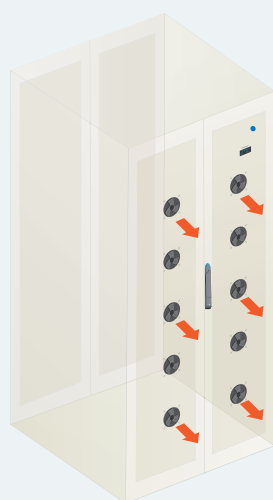
Part no. : FG-40U ( 42U )  
FG-45U ( 45U / 47U )





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.

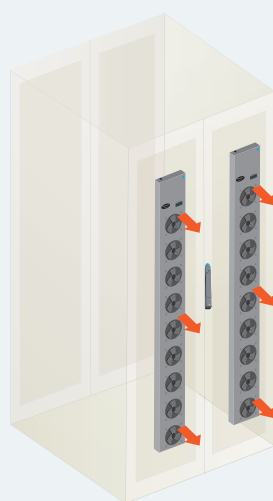


Rear

#### 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 White color

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

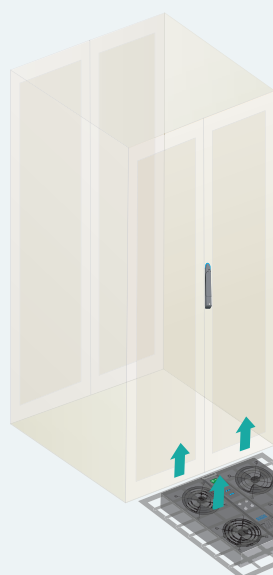


Rear

#### 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 IP )** : **MRF-33.9A**  
**Intelligent ( Expansion serial )** : **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 )

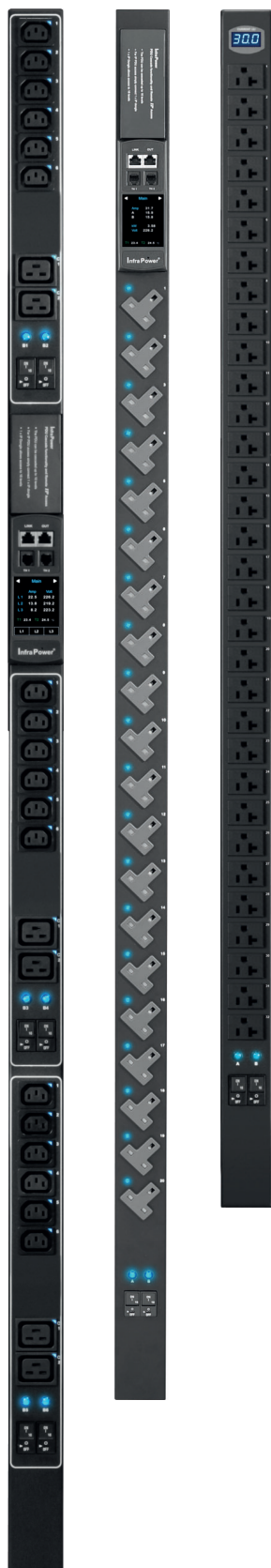
**Intelligent** : **WF-66.4**  
**Basic** : **F-66.4**

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

**InfraPower®** 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.



REACH



PDU series	Basic	Metered	Monitored		Switched	
		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	✓	✓	✓	✓	✓	✓

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](#)

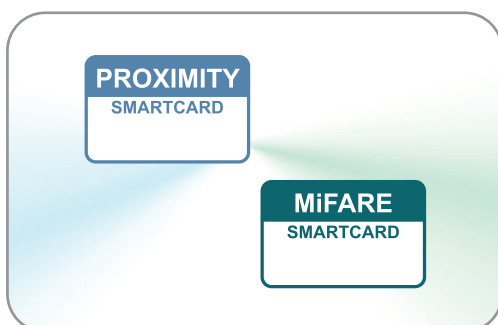
**InfraSolution® X** Rack Smartcard Access - Networked

[Details](#)



Comparison Table		InfraSolution® S Standalone	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



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.



## 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

<b>CMP-1B</b>	1U cable management panel
<b>CMP-2B</b>	2U cable management panel
<b>CMR-120P</b>	Cable Ring on the rear, 88 x 120 mm, pack of 10
<b>FG-40U</b>	Finger guide for 42U rack, set of 2 sides
<b>FG-45U</b>	Finger guide for 45U / 47U rack, set of 2 sides
<b>CT-42U-W150</b>	42U full height cable tray, set of 2 sides, 150 mm wide
<b>CT-45U-W150</b>	45U full height cable tray, set of 2 sides, 150 mm wide
<b>CT-47U-W150</b>	47U full height cable tray, set of 2 sides, 150 mm wide
<b>VCB-42U</b>	42U full height cable brush, set of 2 sides
<b>VCB-45U</b>	45U full height cable brush, set of 2 sides
<b>VCB-47U</b>	47U full height cable brush, set of 2 sides

## Cooling Fan Unit - Basic Model

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

## Cooling Fan Unit - Intelligent Model

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

## Extract Fan Door

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

## Air Duct

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

## Drawer

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

## Air Blanking

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

## Others

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



REACH



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