



CONNECT AND PROTECT

Smart Rack Technology

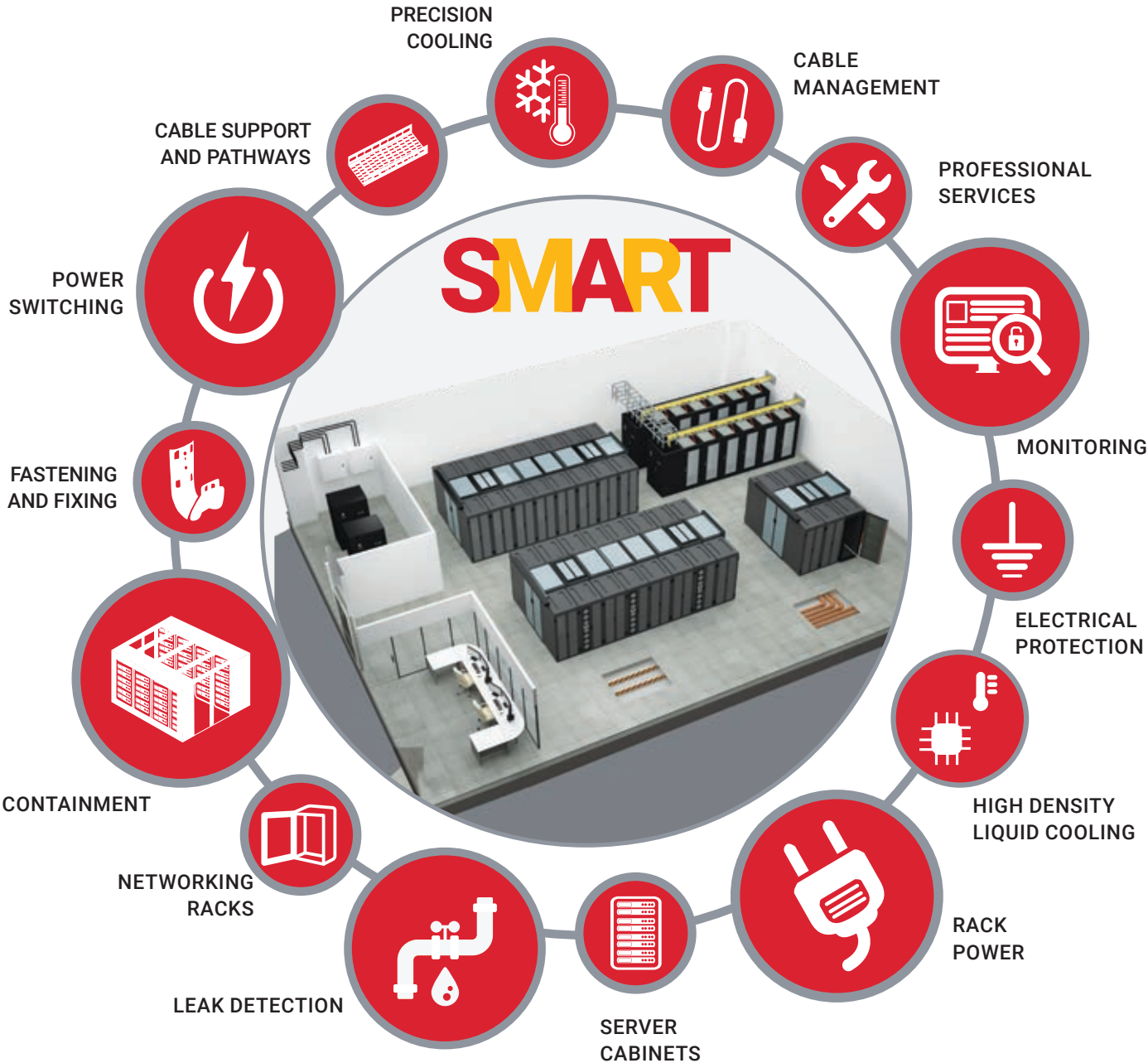
Power and Monitoring for Integrated Solutions





nVent Support

Our smart rack solutions allows you to safely power, monitor, and support your smart infrastructure.





CADDY

nVent CADDY includes fixing, fastening, and support products for high performance cabling systems designed to save installation time.

ERICO

nVent ERICO offers a full range of facility electrical protection products to protect data centers, network and other facilities.

HOFFMAN

nVent HOFFMAN offers a broad range of targeted networking enclosures and racks for protecting sensitive electronic equipment.

RAYCHEM

nVent RAYCHEM TraceTek leak detection solutions pinpoint the source of water and fuel leaks, providing you with critical information to take swift action and avoid damage.



SCHROFF

nVent SCHROFF brand offers modular and scalable server cabinets, aisle containment systems and active cooling solutions to perfectly fit customers' data center requirements.



80+

Manufacturing,
service, sales and
distribution centres

30M+

nVent
enclosures
in use globally

400+

Patents

8800

Global
Workforce



Manufacturing
Sites

Smart Rack Technology

Power and Monitoring for Integrated Solutions

Trust in nVent's optimized solutions for connecting and protecting mission critical data center and networking infrastructure.

IP RACKPOWER HARDWARE - SNMP

Hot pluggable IP hardware provides IP remote access to the PDUs using a single IP address chain. Only one IP gateway is required to access a maximum of 32 PDUs in a daisy chain.

Simply integrate the IP gateway to the 1st PDU, then the entire daisy chain group can be remotely accessed over IP.

All single PDUs can be individually managed over a web interface or using the free of charge RackPower Manager RPM software.

The RackPower PDUs are capable of integrating with Sunbird Power IQ software or other DCIM solutions.



Sunbird

FIELD REPLACEABLE METER

The PDU features a field replaceable RMS current meter with 3" color LCD display with touch screen functionality.

The RackPower PDU features a field replaceable RMS current meter with a 3" color touch screen LCD display.

The LCD display is located at the top of the PDU and provides local visibility to current (Amp), voltage (Volt), power (kW), energy consumption (KWh) and power factor of the entire PDU. The RMS meter provides a metering accuracy of +/- 1%.

The field replaceable module helps eliminate maintenance downtime by enabling replacement without a service interruption.



MULTIPLE OUTLET CONFIGURATIONS

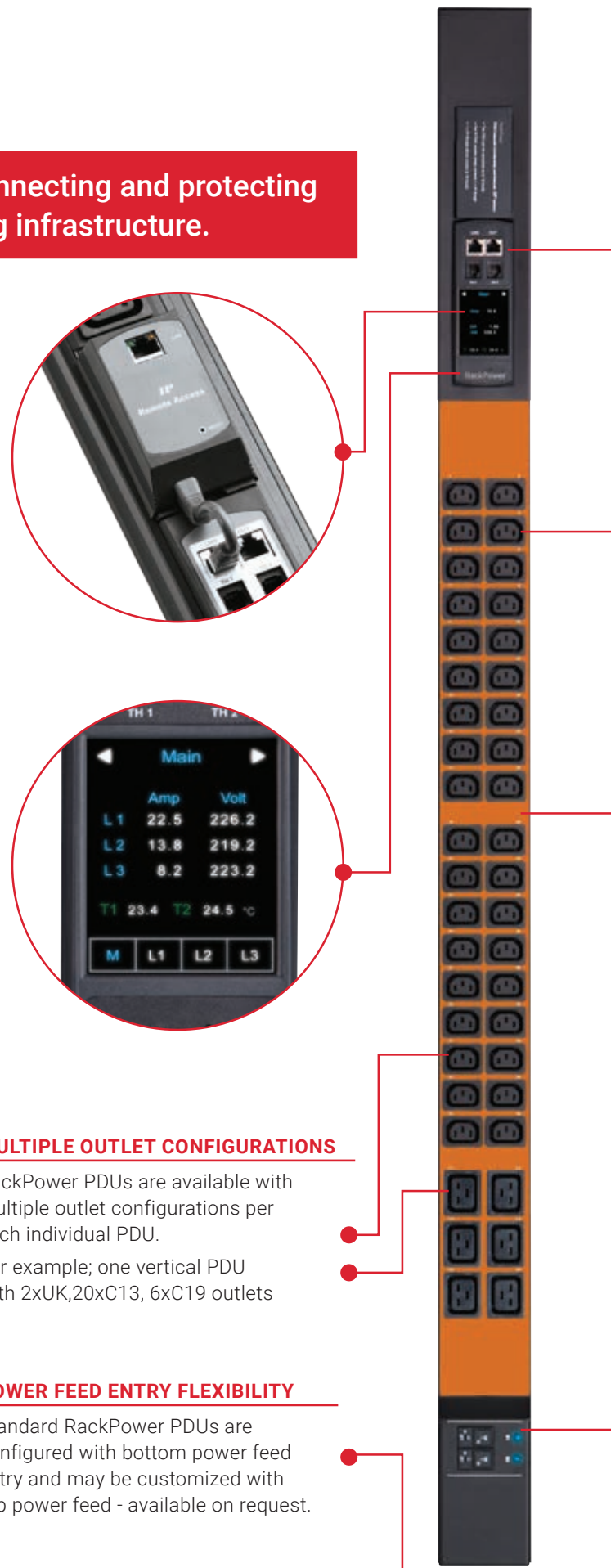
RackPower PDUs are available with multiple outlet configurations per each individual PDU.

For example; one vertical PDU with 2xUK, 20xC13, 6xC19 outlets

POWER FEED ENTRY FLEXIBILITY

Standard RackPower PDUs are configured with bottom power feed entry and may be customized with top power feed - available on request.

- Ensure Uptime
- Enjoy Flexibility
- Automate your Infrastructure Management



Smart Rack Technology

Power and Monitoring for Integrated Solutions



TEMPERATURE & HUMIDITY SENSORS

A pair of sensors can be connected to one single PDU meter. Temperature or Temperature & Humidity (2in1) external sensors are available with a 2 m or 4 m long cord.

Sensors have a low profile design with magnetic base for easy affixing to the cabinet/rack.



ADVANCED IEC CABLE RETAINING

IEC lock outlets or simple cable sleeves offer protection against the unintentional removal of cables from the PDU C13 or C19 outlets.

CHASSIS COLOR

PDU casing and outlet colors may be specified to enhance cable management and visualization of the power sources.

It allows differentiation of power feeds (A & B) if required.

The most common combinations are red & blue or black & grey/white. Other colors including yellow, green, orange and purple are available.



FREE MANAGEMENT SOFTWARE

RackPower Manager enhances the benefits of RackPower PDUs by delivering a centralized remote management platform for the PDUs in multiple IP-access groups. The administrator can remotely manage the PDUs and the environmental sensors connected by the web browser.



FIELD REPLACEABLE POWER SUPPLY WITH LATCHING RELAYS

To protect mission critical equipment from unplanned downtime, outlet switching must be controlled via bistable/latching relays.

The unit power supply is field replaceable (hot swappable) and latching relays ensure 'always on' operational performance and outlet status when returning to a pre-power outage condition after a planned or unplanned shutdown.



RESETTABLE FUSE

- Protected load segments for increased reliability
- Overload reset button
- Cost effective solution for safety operation

CIRCUIT BREAKER

- Protected load segments for increased reliability
- Overload switch
- Designed with fully shrouded protective cover to prevent accidental ON / OFF operation

Smart Rack Technology

Power and Monitoring for Integrated Solutions

CUSTOM SELECTION GUIDE

Direction	Number of phases	Outlet quantity	Outlet Type 1	Outlet quantity	Outlet Type 2	Outlet quantity	Outlet Type 3	Rating	Model Type
V = Vertical	P = 3Phase	02	UK1 = UK 45° Sockets	02	C13 = C13 outlets	02	C19 = C19 outlets	13A	B = Basic
H = Horizontal	"Leave blank for single phase versions"	04	UK2 = UK 135° Sockets	04	"If no C13 outlets required leave blank"	04	"If no C19 outlets required insert leave blank"	16A	RP1 = RP100
		06	UK3 = UK 90° Sockets	06		06		32A	RP10 = RP1000
		08	SCH = CEE7/4 Schuko	08		08		10A	RP15 = RP1500
		10	US = Nema Sockets	10		10		20A	RP20 = RP2000
		12	UTE = CEE7/5 Schuko	12		12		30A	RP30 = RP3000
		16	"If none of these socket types required insert leave blank"	14				20A (3P)	
		20		16				30A (3P)	
		24		18				16A (3P)	
				20				32A (3P)	
				24				63A (3P)	
				28					
				32					
				36					
				36					

Example	V	P	4	US	/	20	C13	/	4	C19	-	30A	-	RP30
Model Code: VP4US/20C13/														



ONLINE RACKPOWER PDU CONFIGURATOR

Use our online configurator to specify your PDU and receive a quote that matches 100% of your requirements



Scan Code
for more information

RACKPOWER SERIES

	RP3000	RP2000	RP1500	RP1000	RP100
Outlet Measurement	x		x		
Outlet Switch ON / OFF	x	x			
Latching Relay	x	x			
SNMP Hardware	x	x	x	x	
Strip level measurement	x	x		x	x

Smart Rack Technology

Power and Monitoring for Integrated Solutions

	Input Plug	Cord Length	Feed Input	Dual Feed	Color	Protection	Additional requirements
	L5 20P	1 = 1 m	B = Bottom	DF	1 = Black RAL 9005	1 = Circuit Breakers	L = LSZH input cord
	L5-30P	2 = 2 m	T = Top	"If dual feed is not required leave blank"	2 = Blue Pantone 200c	2 = Individually fused	E = Extenral earth cord supplied
	L6 20P	3 = 3 m			3 = Red Pantone 300c	3 = EMI filter	S = Special requirement
	L6-30P	4 = 4 m			4 = Grey White RAL 9002	4 = Resettable individual fuses	RCM = Residual Current Monitoring
	L15 20P	5 = 5 m			5 = Yellow RAL 1018	5 = Surge Protection	"If there are no additional requirments leave blank"
	L21 20P	6 = 6 m			7 = Purple RAL 4006	"If there is no protection needed leave blank. Circuit breakers will be added if mandatory to fullfil national standards."	
	L15 30P	7 = 7 m			8 = Orange RAL 1007		
	L21 30P	8 = 8 m			9 = Green RAL 6029		
	60309	9 = 9 m					
	C20	0 = 10 m					
	UK						
	Schuko						
	UT = Unterminated						
	C14						

-	60309	/	3		B	-		-	1		-	1		-	
4C19-30A-RP30-60309/3B-1-1															

	Catalog No.	Selection Guide No.
Single Phase - 110	RPP110P20AP124	V24US-20A_L520/2T-1
	RPP110P30AP124	V24US-30A_L530/3B-1
	RPP110R20AP110	H10US-20A_L515/3B-1
	RPP110R30AP110	H10US-30A/F_L530/3B-1
	RP10110P20AP124	V24US-20A-W_L520/3T-1
	RP10110P30AP124	V24US-30A-W_L530/3T-1
	RP20110P20AP124	V24US-20A-WS/CR_L520/3T-1
	RP20110P30AP124	V24US-30A-WS/CR_L530/3T-1

	Catalog No.	Selection Guide No.
Three Phase - 208V	RP10208P30AP327B	VP3US/21C13/6C19-30A-W/CR_L2130/2B-1
	RP10208P30AP342B	VP36C13/6C19-30A-W/CR_L2130/2B-1
	RP10208P50AP342	VP36C13/6C19-50A-W/CR_CS8265C/2T-1
	RP10208P60AP318B	VP6C13/12C19-60A-W/CR_4pEN/2B-1
	RP10208P60AP342B	VP36C13/6C19-60A-W/CR_4pEN/2B-1
	RP15208P30AP324	VP21C13/3C19-30A-Wi/CR_L2130/2T-1
	RP20P208P20AP324	VP21C13/3C19-20A-WS/CR_L2120/2T-1
	RP20P208P30AP324	VP21C13/3C19-30A-WS/CR_L2130/2T-1
	RP30208P20AP324	VP21C13/3C19-20A-WSi/CR_L2120/2T-1

	Catalog No.	Selection Guide No.
Single Phase - 208V	RPP208R30AP110	H10C13-30A/CR_L630/3B-1
	RPP208R20AP112	H12C13-20A-L620/3B-1
	RPP208P20AP124	V20C13/4C19-20A/CR_L620/3T-1
	RPP208P30AP124	V20C13/4C19-30A/CR_L630/3T-1
	RPP208R20AP114	H12C13/2C19-20A_L620/3B-1
	RP10208P30AP142	V36C13/6C19-30A-W/CR_L630/3T-1
	RP10208P30AP136B	V30C13/6C19-30A-W/CR_L630/3B-1
	RP10208H30AP112B	H12C13-30A-W/CR_L630/3B-1
	RP15208P30AP124	V21C13/3C19-30A-Wi/CR_L630/3T-1
	RP15208P30AP124T	V21C13/3C19-30A-Wi/CR_L630/3T-1
	RP20P208P20AP124	V21C13/3C19-20A-WS_L620/3B-1
	RP20P208P30AP124	V21C13/3C19-30A-WS/CR_L630/3T-1
	RP30208P20AP124	V21C13/3C19-20A-WSi_L620/2B-1

Smart Rack Technology

Power and Monitoring for Integrated Solutions

RACKPOWER MANAGER SOFTWARE (FREE)



Ultra density PDU Management can be achieved with RackPower Manager, the associated software for RackPower PDUs. Supporting remote management of multiple PDU daisy chain groups.

- RPM-04 supports up to 720 PDU's (45 PDU Groups)
- RPM-04 provides the basic functions of:
 - Monitoring or measurement of Amps, Volts, kW, kWh, Power factor and Temperature / Humidity
 - Remote switching ON / OFF per individual power outlets
 - Reporting
 - Alarm setting
 - PDU Outlet measurement
 - Grouping and chart reporting (These functions are provided by higher software editions)

RackPower Manager enhances the benefits of RackPower PDUs by delivering a centralized remote management platform for the PDUs in multiple IP-access groups.

The administrator can remotely manage the PDUs and the environmental sensors connected by the web browser.

- Wide functionality
- Concise monitoring pages
- Mass scale PDU management
- Scalable solution
- Flexibility by multiple users
- Cost effective

The RackPower PDUs are capable of integrating with Sunbird Power IQ software or other DCIM solutions.

RACK ACCESSORIES

IP Hardware - SNMP

- Hot pluggable for easy integration
- Dual LAN Network Failover
- Auto-negotiable 10/100 BaseT Ethernet and Gigabit Ethernet standard
- Supports up to 32 daisy chained PDUs under single IP address
- USB WiFi port for integration with additional wireless connection kit



Sensors

- External sensor available with 2M cord
- Plug and play
- Low profile design with magnetic base for easy affixing to the cabinet
- Pair of sensors can be connected to one single PDU meter
- Temperature, temp and humidity, and airflow sensors available



4.3" Door Mount PDU Panel

- PDU and sensor display and alarm
- Magnetic mounting (screw kit included as well)
- Panel resolution 480 x 272
- Resistive touchscreen
- Smart and stylish look
- Temperature & humidity, temperature, and airflow sensors available



Catalog	Description
NPDV03	Vertical PDU IP Gateway
PPDV03WK	IP Gateway Wi-Fi Kit
LCD4INDRMT	4.3" Door Mount LCD Screen
NPS1	PDU Temperature Sensor
NPS2	PDU Temp and Humidity Sensor

Smart Rack Technology

Power and Monitoring for Integrated Solutions

1U LCD Console Drawer

- 17" and 19" widescreen LCD displays
- Varying resolution: 1080p to 4K
- Short depth design of 460 mm
- 104-key keyboard with either touchpad or trackball
- Light weight
- One person installation design

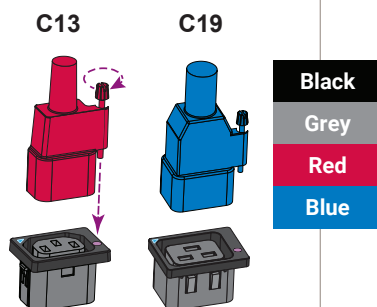


Catalog	Description
LCD1U4K	4K LCD CONSOLE DRAWER
LCD1U1080	1080P LCD CONSOLE DRAWER
LCD1U900	WIDE SCREEN LCD CONSOLE DRAWER

*KVM options available with custom order

Lockable IEC Colored Power Cords

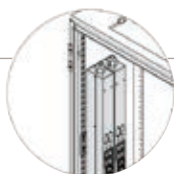
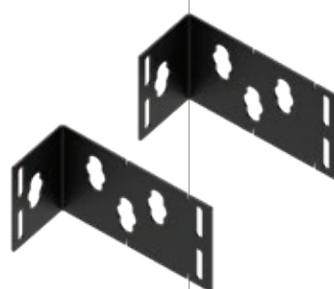
- Proprietary locking design
- Applicable to standard IEC outlet market standard
- Quality and cost effective
- Easy to lock & secure
- 4-colors: Black, Grey, Red, and Blue
- C13-C14: 1M
- C19-C20: 1M



Catalog	Description
NPC1310BLK	PDU C13 1M PWR CORD BLACK
NPC1310GRY	PDU C13 1M PWR CORD GREY
NPC1310RED	PDU C13 1M PWR CORD RED
NPC1310BLU	PDU C13 1M PWR CORD BLUE
NPC1910BLK	PDU C19 1M PWR CORD BLACK
NPC1910GRY	PDU C19 1M PWR CORD GREY
NPC1910RED	PDU C19 1M PWR CORD RED
NPC1910BLU	PDU C19 1M PWR CORD BLUE

PDU Mounting Bracket

- Button-hook style mounting bracket
- 6 different mounting configurations
- Single and dual (side-by-side) mounting options
- Front-facing and rear-facing configurations
- Breakaway tabs save space for single PDU mounting configurations



Dual Side-Facing Mounting



Single Rear-Facing Mounting

Catalog	Description
DPDU2	PDU MOUNTING BRACKET

Smart Rack Technology

Power and Monitoring for Integrated Solutions

iATS - Intelligent Automatic Transfer Switch

- ATS < 10ms transfer time – for equipment with one Power Supply Unit (PSU)
- Input preference switch for priority power feed
- Redundant power for single-corded equipment
- Auto-switching relay for seamless power transfer
- 8 to 20 IEC outlets – custom configurations available
- LED meter for true RMS local current monitoring
- 1U & 2U versions
- Single- and three-phase configurations
- Country-specific outlets

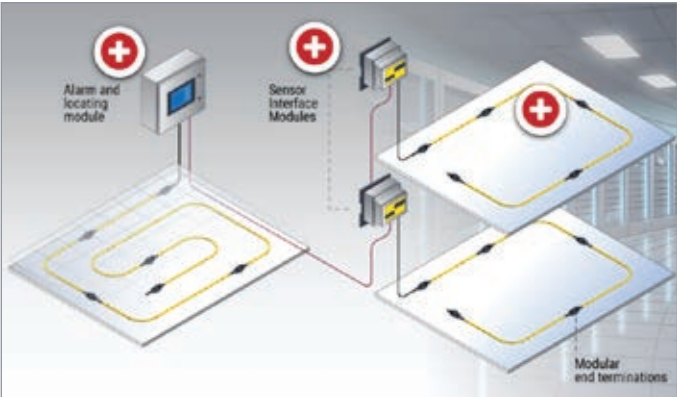


Catalog	Description
NPATS11001	ATS WS 110V 15A 5_20RX10
NPATS11002	ATS WS 110V 20A 5_20RX10
NPATS11003	ATS WS 110V 20A 5_20RX16



SMART LEAK DETECTION

- Leak detection sensors: water, fuel, caustic chemicals, and hydrocarbons
- Robust and reliable conductive sensing cables
- Interchangeable components allows modular configurations
- Advanced control and alarm panels



Order Info

Please contact Customer Service for order information

Smart Rack Technology

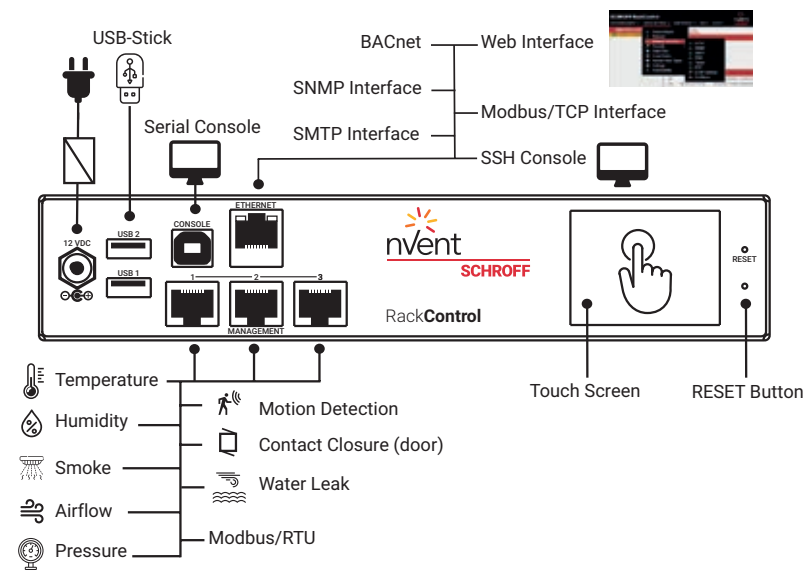
Power and Monitoring for Integrated Solutions

GUARDIAN MANAGEMENT GATEWAY



- Benefits and Features
- Data Center environmental monitoring platform
 - Compact Design, fits anywhere in a data center rack
 - Web browser GUI for setup, maintenance and monitoring
 - Three management ports to connect external sensors and Modbus devices
 - Up to 16 sensors/Modbus devices per management port with a cable length of 40 m
 - Auto orientation LCD Touch Display
 - Supports Industry standard network protocols (HTTPS, SNMP, SMTP, BACnet, Modbus/TCP, HPI, IPV4, and IPV6)

INTERFACE OVERVIEW



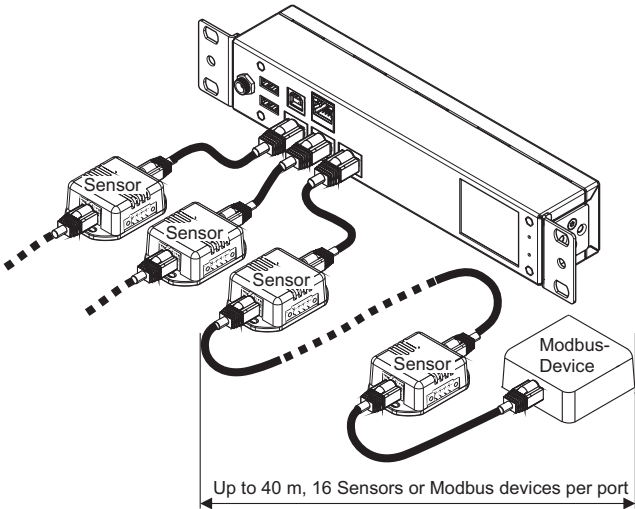
- 1 USB interface (Console Type B)
- 3 Sensor management ports (RJ45)
- 2 USB interfaces (USB 1 and USB 2)
- 1 GBE Network interface (RJ45)
- 1 Auto orientation LCD touch display
- 1 Power Barrel Connector 2.1/5.5 mm

SENSOR AND MODBUS DEVICE CONNECTION DIAGRAM

INFORMATION

Order Information	Article Number
nVent SCHROFF Guardian Management Gateway	11079-000
Including: Management Gateway Unit, 2 Mounting brackets, 1 Power supply with IEC320-C14 inlet (12 VDC Output, 100 - 240 V AC Input), Power cable not included	

Accessories	
Power Cable IEC320-C13 to IEC320-C14, 2.5 m	60197-053
Multi Sensor (Temperature/Humidity/2x Digital Input)	21070-100
Multi Sensor (Temperature/Humidity)	21070-101
Temperature Sensor	21070-102
Digital Sensor 1 (2x Digital Input)	21070-103
19" Mounting Bracket	on request



North America

Minneapolis, MN	Tel: +1.763.421.2240
Mexico City, Mexico	Tel: +52.55.5280.1449
Toronto, Canada	Tel: +1.416.289.2770
Warwick, Rhode Island	Tel: +1.401.732.3770

Europe

Betschdorf, France	Tel: +33.3.88.90.64.90
Straubenhardt, Germany	Tel: +49.7082.794.0
Dzierzoniow, Poland	Tel: +48.74.64.63.900
Assago, Italy	Tel: +39.02.5776151.224

Middle East & India

Dubai, United Arab Emirates	Tel: +971.4.378.1700
Bengaluru, India	Tel: +91.80.6715.2001

Asia

Shanghai, P.R. China	Tel: +86.21.2412.6943
Singapore	Tel: +65.6768.5800
Shin-Yokohama, Japan	Tel: +81.45.476.0271
Seoul, Korea	Tel: +82.2.2129.7755
Qingdao	Tel: +86.532.8771.6101

Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER



nVent.com