Benefits and Overview

Overview

The IMD is a hot-swappable and field upgradeable network card enabling local and remote monitoring.

IMD's may be upgraded to leverage the latest technologies and adapt to changing business needs without having to replace entire power strips.

Benefits

- Easily update rPDUs with the latest technology

- Hot-swappable IMDs provide the ability to upgrade monitoring features and functionality without taking down critical IT Equipment

- Reduce cost of ownership and optimize ROI by updating the IMD rather than the entire rPDU

Interchangeable Monitoring Devices

Vertiv™ PowerIT Upgradeable IMD Interchangeable Monitoring Device

Part Number	Product Summary
IMD-01DV (Vertical) IMD-01DH (Horizontal)	Enables input current monitoring. Local high visibility LED display. Input power monitoring available via VLC feature using the Vertiv™ rPDU Scanner app.
Specifications and Options	
Monitoring	Input power monitoring and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Local high visibility LED display.
Input Monitoring	Total Unit Monitoring (kWh, W, VA, PF) Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) where applicable as determined by base rPDU model. Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements
Circuit Monitoring	Circuit / Breaker Monitoring (A) where applicable as determined by base rPDU model. Circuit / Breaker Current Measurements Independently Tested and Verified at 2% Accuracy
VLC Support	Yes
Scrolling / Rotatable Digital Display	Yes
Product Warranty	5-year limited warranty if registered within 120 days of purchase, otherwise warranty defaults to 3 years
Certification / Agency Approvals	RoHS Compliant
Shipped Weight	1 lbs (.45kg)

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Vertiv™ PowerIT Upgradeable IMD Interchangeable Monitoring Device

Part Number	Product Summary
IMD-03E-GV / IMD-03E-GH (Vertical) IMD-03E-SH (Horizontal)	Enables Input power monitoring and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.
Specifications and Options	
Monitoring	Input power monitoring and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.
Input Monitoring	Total Unit Monitoring (kWh, W, VA, PF) Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) where applicable as determined by base rPDU model. Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements
Circuit Monitoring	Circuit / Breaker Monitoring (A) where applicable as determined by base rPDU model. Circuit / Breaker Current Measurements Independently Tested and Verified at 2% Accuracy
VLC Support	Yes
Scrolling / Rotatable Digital Display	Yes
Network Connection	Dual 10 / 100 / 1000Mbps Ethernet
Protocols Supported	DHCP, HTTP, HTTPS, IPv4, IPv6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1 / v2c / v3), Syslog, TACACS+
Data Access Formats	CSV datalog, JSON API, JSON datalog
USB Support	Yes
IP Reset Button	Yes
Hard Reboot Button	Yes
Serial Connection	RS232 via RJ45
Remote Sensor RJ Connection Jacks	1 (Supports up to 16 Sensors)
Product Warranty	5-year limited warranty if registered within 120 days of purchase, otherwise warranty defaults to 3 years
Certification / Agency Approvals	RoHS Compliant
Shipped Weight	1 lbs (.45kg)

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Vertiv™ PowerIT Upgradeable IMD Interchangeable Monitoring Device

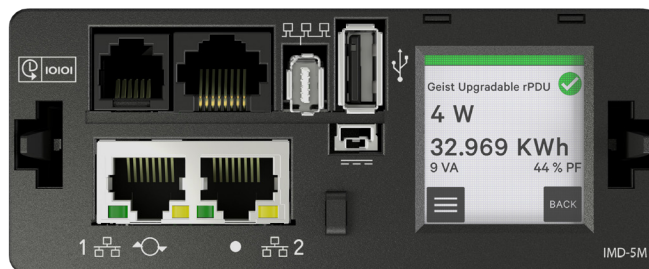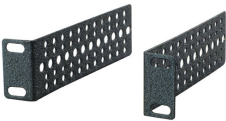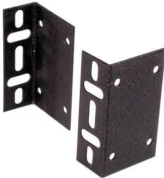| Part Number	Product Summary
IMD-3E-GH / IMD-3E-GV (Vertical) IMD-3E-SH (Horizontal)	Network card for Input and Outlet level power monitoring, Outlet switching, and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Enables serial communication via RS232 port. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.
Specifications and Options	
Monitoring	Input and Outlet power monitoring, and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.
Input Monitoring	Total Unit Monitoring (kWh, W, VA, PF) Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) where applicable as determined by base rPDU model. Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements
Circuit Monitoring	Circuit / Breaker Monitoring (A) where applicable as determined by base rPDU model. Circuit / Breaker Current Measurements Independently Tested and Verified at 2% Accuracy
Outlet Monitoring	Outlet Monitoring (kWh, W, VA, PF, V, A) where applicable as determined by base rPDU model. Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements.
Remote Power Management	Individual Outlet Switching with Optional User Defined Time Delays and Sequential Power-up where applicable as determined by base rPDU model.
VLC Support	Yes
Scrolling / Rotatable Digital Display	Yes
Network Connection	Dual 10 / 100 / 1000Mbps Ethernet
Protocols Supported	DHCP, HTTP, HTTPS, IPv4, IPv6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1 / v2c / v3), Syslog, TACACS+
Data Access Formats	CSV datalog, JSON API, JSON datalog
USB Support	Yes
IP Reset Button	Yes
Hard Reboot Button	Yes
Serial Connection	RS232 via RJ45
Remote Sensor RJ Connection Jacks	1 (Supports up to 16 Sensors)
Product Warranty	5-year limited warranty if registered within 120 days of purchase, otherwise warranty defaults to 3 years
Certification / Agency Approvals	RoHS Compliant
Shipped Weight	1 lbs (.45kg)

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Vertiv™ PowerIT Upgradeable IMD Interchangeable Monitoring Device

Part Number	Product Summary
IMD-5M	Next Generation Intelligence card supporting Input and Output level power monitoring, Outlet switching, and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Enables serial communication via RS232 port. Features Secure Boot utilizing a hardware trust anchor. Redundant IMD Power Sharing via onboard port. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local touchscreen equipped LCD display with ability to locally provision the rPDU.
Specifications and Options	
Monitoring	Input and Output level power monitoring, Outlet switching, and Circuit / Breaker current monitoring where applicable as determined by base rPDU model. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity.
Input Monitoring	Total Unit Monitoring (kWh, W, VA, PF)
	Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) where applicable as determined by base rPDU model.
	Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements
Circuit Monitoring	Circuit / Breaker Monitoring (A) where applicable as determined by base rPDU model.
	Circuit / Breaker Current Measurements Independently Tested and Verified at 2% Accuracy
Outlet Monitoring	Outlet Monitoring (kWh, W, VA, PF, V, A) where applicable as determined by base rPDU model.
	Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements.
Remote Power Management	Individual Outlet Switching with Optional User Defined Time Delays and Sequential Power-up where applicable as determined by base rPDU model.
High-visibility touchscreen LCD Display	Internal Orientation sensor adjusts display for Vertical or Horizontal mounting.
Network Connection	Dual 10 / 100 / 1000Mbps Ethernet
Protocols Supported	DHCP, HTTP, HTTPS, IPv4, IPv6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1 / v2c / v3), Syslog, TACACS+
Data Access Formats	CSV datalog, JSON API, JSON datalog
USB Support	Yes
IP Reset Button	Yes
Hard Reboot Button	Yes
Serial Connection	RS232 via RJ45
Remote Sensor RJ Connection Jacks	1 (Supports up to 16 Sensors)
Product Warranty	5-year limited warranty if registered within 120 days of purchase, otherwise warranty defaults to 3 years
Toolless IMD Removal	Yes
Secure Boot	Yes, utilizes a hardware based trust anchor
Certification / Agency Approvals	RoHS Compliant
Shipped Weight	1 lbs (.45kg)

Horizontal Brackets

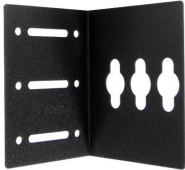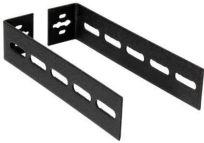| Part #:	Image	Description:	Specs:
7938BK		19" Horizontal / Vertical Brackets	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.09 lbs
23-RM		23" Rackmount Brackets	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.7 lbs
AM		Adjustable Mount Brackets	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.6 lbs
FM		Flush Mount Brackets	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.2 lbs
PM		Panel / Side Mount – Zero U Brackets	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.2 lbs

Vertical Brackets

Part #:	Image	Description:	Specs:
7899		39" Full Length Mounting Bracket – Allows for up to 180 degree rotation of rPDU	Qty: 1 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 2 lbs
7940		48" Full Length Mounting Bracket – Allows for up to 180 degree rotation of rPDU	Qty: 1 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 2 lbs
7900		66" Full Length Mounting Bracket – Allows for up to 180 degree rotation of rPDU	Qty: 1 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 2.25 lbs
8153VH		70" Full Length Mounting Bracket – Allows for up to 180 degree rotation of rPDU	Qty: 1 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 2.5 lbs
8917		72" Full Length Mounting Bracket – Allows for up to 180 degree rotation of rPDU	Qty: 1 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 2.5 lbs
9083C and 9084C		Plastic Mounting Clips for 1.61" x 1.61" (WxD) vertical power strips. 9083C - side clip. 9084C - bottom clip. Both clips are required and must be purchased separately.	Qty: 1 Black Plastic Material Made in the USA RoHS Compliant Unit Weight – 1 lbs
SLB-4		4" L-shaped Brackets for use with vertical power strips allows for 180 degree rotation of rPDU	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.3 lbs
TLFL		67" Toolless Full Length Bracket to add the option of toolless mounting to any cabinet	Qty: 1 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 2.5 lbs
TLMH		Toolless Mounting Hardware for vertical power strips to simplify mounting to racks and cabinets with toolless mounting cut-outs	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 0.1 lbs

Vertical Brackets

Part #:	Image	Description:	Specs:
TSMX2		Toolless Mounting Bracket for mounting 1 or 2 vertical power strips side-by-side	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 1 lbs
VCB-1		Vertical Extension Brackets for vertical power strips allows for 180 degree rotation and to extend rPDU to reach mounting locations	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 1 lbs
XB-7		7" Offset Brackets for vertical power strips to offset the rPDU 7" from rack or cabinet allows for up to 180 degree rotation of rPDU	Qty: 2 Heavy Steel Black Powder Coat Finish Made in the USA RoHS Compliant Unit Weight – 1 lbs

Clips and Plug Shields

Part #:	Image	Description:	Specs:
9091VH		IEC C13 Plug Shield for blocking unused outlets on rPDUs. Helps to discourage usage of any unused outlets to prevent circuit overloads. Plug Shield Removal tool required for removal.	Qty: 1 Color: Red Material: Plastic Made in the USA
6997		IEC C19 Plug Shield for blocking unused outlets on rPDUs. Helps to discourage usage of any unused outlets to prevent circuit overloads. "Authorized Removal Only" Plug Shield Removal tool required for removal.	Qty: 1 Color: Red Material: Plastic Made in the USA
6998		Plug Shield Removal Tool	Qty: 1 Color: Black Material: Plastic Made in the USA
NPP-1		NEMA Outlet Plug	Qty: 1 Made in the USA RoHS Compliant
7759-12		IEC C13 Retaining Clip – 12 Pack is ideal for minimizing the opportunity for cord sets to be accidentally un-plugged. For use with Vertiv™ IEC units with C13 receptacles.	Qty: 12 RoHS Compliant