**Benefits and Overview**

**Overview**

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

IMDs 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™ Geist™ Upgradeable IMD**

**Interchangeable Monitoring Device**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMD-01DV (Vertical)</td>
<td>Enables input current monitoring. Local high visibility LED display. Input power monitoring available via VLC feature using the Vertiv™ rPDU Scanner app.</td>
</tr>
<tr>
<td>IMD-01DH (Horizontal)</td>
<td></td>
</tr>
</tbody>
</table>

**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)
**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**

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- 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.

---

**Vertiv™ Geist™ Upgradeable IMD Interchangeable Monitoring Device**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMD-03E-GV / IMD-03E-GH (Vertical)</td>
<td>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.</td>
</tr>
<tr>
<td>IMD-03E-SH (Horizontal)</td>
<td></td>
</tr>
</tbody>
</table>

**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)
Vertiv™ Geist™ Rack PDU Accessory Brochure

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.

Vertiv™ Geist™ Upgradeable IMD Interchangeable Monitoring Device

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMD-3E-SH (Horizontal)</td>
<td></td>
</tr>
</tbody>
</table>

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)
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.

Vertiv™ Geist™ Upgradeable IMD Interchangeable Monitoring Device

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMD-SM</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part #</th>
<th>Image</th>
<th>Description:</th>
<th>Specs:</th>
</tr>
</thead>
</table>
| 7938BK  | ![Image](7938BK.png) 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   | ![Image](23-RM.png) 23” Rackmount Brackets | Qty: 2  
Heavy Steel Black Powder Coat Finish  
Made in the USA  
RoHS Compliant  
Unit Weight – 0.7 lbs |
| AM      | ![Image](AM.png) Adjustable Mount Brackets | Qty: 2  
Heavy Steel Black Powder Coat Finish  
Made in the USA  
RoHS Compliant  
Unit Weight – 0.6 lbs |
| FM      | ![Image](FM.png) Flush Mount Brackets | Qty: 2  
Heavy Steel Black Powder Coat Finish  
Made in the USA  
RoHS Compliant  
Unit Weight – 0.2 lbs |
| PM      | ![Image](PM.png) 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

<table>
<thead>
<tr>
<th>Part #:</th>
<th>Image</th>
<th>Description:</th>
<th>Specs:</th>
</tr>
</thead>
</table>
| 7899       | ![Image](image1.png) | 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       | ![Image](image2.png) | 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       | ![Image](image3.png) | 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     | ![Image](image4.png) | 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       | ![Image](image5.png) | 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 | ![Image](image6.png) | 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      | ![Image](image7.png) | 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       | ![Image](image8.png) | 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       | ![Image](image9.png) | 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

<table>
<thead>
<tr>
<th>Part #:</th>
<th>Image</th>
<th>Description</th>
<th>Specs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSMX2</td>
<td><img src="image1.png" alt="Image" /></td>
<td>Toolless Mounting Bracket for mounting 1 or 2 vertical power strips side-by-side</td>
<td>Qty: 2&lt;br&gt;Heavy Steel Black Powder Coat Finish&lt;br&gt;Made in the USA&lt;br&gt;RoHS Compliant&lt;br&gt;Unit Weight – 1 lbs</td>
</tr>
<tr>
<td>VCB-1</td>
<td><img src="image2.png" alt="Image" /></td>
<td>Vertical Extension Brackets for vertical power strips allows for 180 degree rotation and to extend rPDU to reach mounting locations</td>
<td>Qty: 2&lt;br&gt;Heavy Steel Black Powder Coat Finish&lt;br&gt;Made in the USA&lt;br&gt;RoHS Compliant&lt;br&gt;Unit Weight – 1 lbs</td>
</tr>
<tr>
<td>XB-7</td>
<td><img src="image3.png" alt="Image" /></td>
<td>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</td>
<td>Qty: 2&lt;br&gt;Heavy Steel Black Powder Coat Finish&lt;br&gt;Made in the USA&lt;br&gt;RoHS Compliant&lt;br&gt;Unit Weight – 1 lbs</td>
</tr>
</tbody>
</table>
# Clips and Plug Shields

<table>
<thead>
<tr>
<th>Part #</th>
<th>Image</th>
<th>Description:</th>
<th>Specs:</th>
</tr>
</thead>
</table>
| 9091VH    | ![Image](image1.png) | 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      | ![Image](image2.png) | 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      | ![Image](image3.png) | Plug Shield Removal Tool                                                                                                                                                                                   | Qty: 1  
Color: Black  
Material: Plastic  
Made in the USA |
| NPP-1     | ![Image](image4.png) | NEMA Outlet Plug                                                                                                                                                                                           | Qty: 1  
Made in the USA  
RoHS Compliant |
| 7759-12   | ![Image](image5.png) | IEC C13 Retaining Clip – 12 Pack is ideal for minimizing the opportunity for cord sets to be accidentally un-plugged. For use with Vertiv™ Geist™ IEC units with C13 receptacles. | Qty: 12  
RoHS Compliant |