

# GEIST

Future Thinking • Solutions Today

## Upgradeable PDU



GEIST

POWER | Upgradeable

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Geist Upgradeable power strips give data center managers the flexibility to install the intelligence they require today with the option to upgrade technology as needs evolve. From basic power to sophisticated power monitoring with remote sensors, the Geist Upgradeable product line adapts to your business well into the future.

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## Features & Benefits

**Upgradeable Monitoring** – Install the technology you need today with the ability to upgrade as your needs evolve.

**Hot-Swappable Units** – Add, remove or switch Interchangeable Monitoring Devices (IMD) without interrupting power to critical servers.

**High Temperature Grade** – 60°C working ambient variants for high temperature environments.

**Remote Sensor Port** – Monitor environmental conditions such as temperature, airflow, humidity and dew point with the use of a Geist remote sensors.

**Input Power Monitoring 1% Accuracy (ANSI and IEC standards)** – Allows data center managers to accurately reconcile power usage.

**Fault-Tolerant Daisy Chaining** – Simplifies intelligent PDU connectivity and ensures data is reported even with a break in the chain.

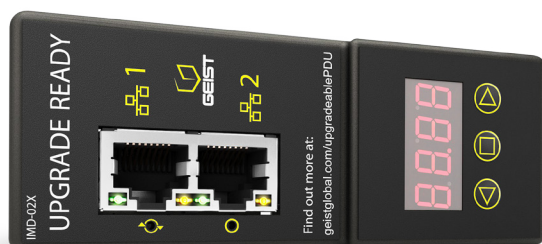
**Low-Profile Breakers** – Compact profile to install in tight spaces for units requiring breakers.

**Red LED Rotatable Display** – Read power data easily in dimly lit areas.

**Available With or Without U-Lock Receptacles** – Designed for simplicity, the patented U-Lock technology will naturally capture and securely lock cords in place. Each receptacle is color injected directly, to assure load balancing is easily achieved.

## Upgrade Path

There is a clear route to upgraded functionality for Geist PDUs. However, it is not necessary to start at the most basic level. Simply choose the functionality that suits your requirements today and even if that is at our current most sophisticated level, our future solutions approach will allow you to upgrade at a later date.



## Future Upgrades

We are always looking to add functionality as technology advances, allowing you to make more of our product in the future. That means you can stay at the very peak of performance when it comes to our upgradeable power products.

### IMD – Power Monitoring and Remote Sensor

The latest Interchangeable Monitoring Device allows remote power monitoring and also adds the ability to connect up to four remote sensors - ideal for installations requiring environmental monitoring.

Pages 03 - 06

### IMD – Power Monitoring

A PDU that offers power monitoring: the perfect first step towards PDU increased functionality.

Pages 07 - 10

### Basic

Should your facility not be ready for any power monitoring, but it is on the future development plan, then you can start with the basic upgradeable unit. No IMD is included with the device, but the technology is included within the power strip.

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## Interchangeable Monitoring Device (IMD)

# Upgradeable Local and Remote Power Monitoring + Remote Sensing

Part Number: **IMD-02EV** - Vertical  
**IMD-02EH** - Horizontal

### Description

The IMD-02EV Interchangeable Monitoring Device + Remote Sensing delivers a comprehensive view of power usage and environmental conditions in a data center. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied as it is developed.

The IMD-02EV, offers on-board and web power monitoring display options with quick access to the unit's current, volts, real power, apparent power, power factor and kilowatt hours. By monitoring these critical variables, data center managers can evaluate energy usage trends and ensure maximum uptime. The unit's environmental sensor port also gives data center managers the ability to track critical climate variables like temperature, air flow, humidity and dew point with the use of a Geist remote sensor.

**Racknet Enabled** — The IMD-02EV easily integrates with Racknet — Geist's DCIM software. Racknet (purchased separately) collects and reports critical power and environmental data for multiple PDUs in one, user configurable interface. Users gain immediate remote access to trends, alarms and histories of devices in the data center through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact your Geist rep for more details.

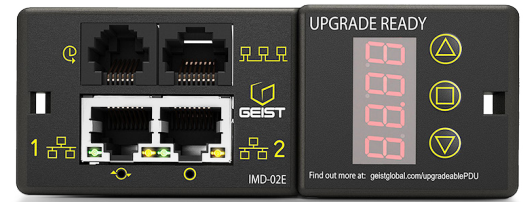
### Product Summary

Interchangeable Monitoring Device, Power Monitoring + Remote Sensing, Phase (X, Y, Z) Monitoring (A, V, W, VA, kWh, PF) Phase Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements, Circuit/Breaker Monitoring (A), Circuit/Breaker Current Measurements Independently Tested and Verified at 2% Accuracy.





## Upgradeable Local and Remote Power Monitoring + Remote Sensing



Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type and Count	Network Port	Remote Sensor Port	Toolless Mounting	Chassis Dimension
<b>A</b>	<b>I20045</b>	20A	120V	1.9kW	5-20P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	66.25in x 2in x 2in
<b>B</b>	<b>I20046</b>	30A	120V	2.8kW	L5-30P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	66.25in x 2in x 2in
<b>C</b>	<b>I20047L</b>	30A	208V	4.9kW	L6-30P	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
<b>D</b>	<b>I20050L</b>	20A	120/208V	5.7kW	L21-20P	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
<b>E</b>	<b>I20051L</b>	30A	120/208V	8.6kW	L21-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
<b>F</b>	<b>I20052L</b>	30A	208V	8.6kW	L15-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
<b>G</b>	<b>I20062L</b>	50A	208V	14.4kW	3P+E CA	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2.25in x 3.44in
<b>H</b>	<b>I20058L</b>	60A	208V	17.2kW	3P+E (IP44)	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2.25in x 3.44in
<b>I</b>	<b>I20071L</b>	60A	208V	9.9kW	2P+E (IP44)	18 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2.25in x 3.44in

Additional configurations available. See them all at [geistglobal.com/upgradeablePDU](https://geistglobal.com/upgradeablePDU).





**5 YEAR**  
WARRANTY

## Interchangeable Monitoring Device (IMD)

# Upgradeable Local and Remote Power Monitoring

Part Number: **IMD-02XV** – Vertical  
**IMD-02XH** – Horizontal

### Description

The IMD-02XV Interchangeable Monitoring Device delivers a comprehensive view of power usage in a data center. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied as it is developed.

The IMD-02XV, offers on-board and web power monitoring display options with quick access to the unit's current, volts, real power, apparent power, power factor and kilowatt hours. By monitoring these critical variables, data center managers can evaluate energy usage trends and ensure maximum uptime.

Racknet Enabled — The IMD-02XV easily integrates with Racknet — Geist's DCIM software. Racknet (purchased separately) collects and reports critical

power and environmental data for multiple PDUs in one, user configurable interface. Users gain immediate remote access to trends, alarms and histories of devices in the data center through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact your Geist rep for more details.

### Product Summary

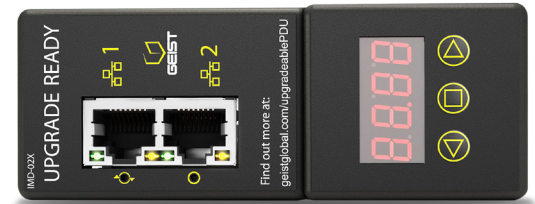
Interchangeable Monitoring Device, Power Monitoring, Phase (X, Y, Z) Monitoring (A, V, W, VA, kWh, PF) Phase Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements, Circuit/ Breaker Monitoring (A), Circuit/Breaker Current Measurements Independently Tested and Verified at 2% Accuracy.







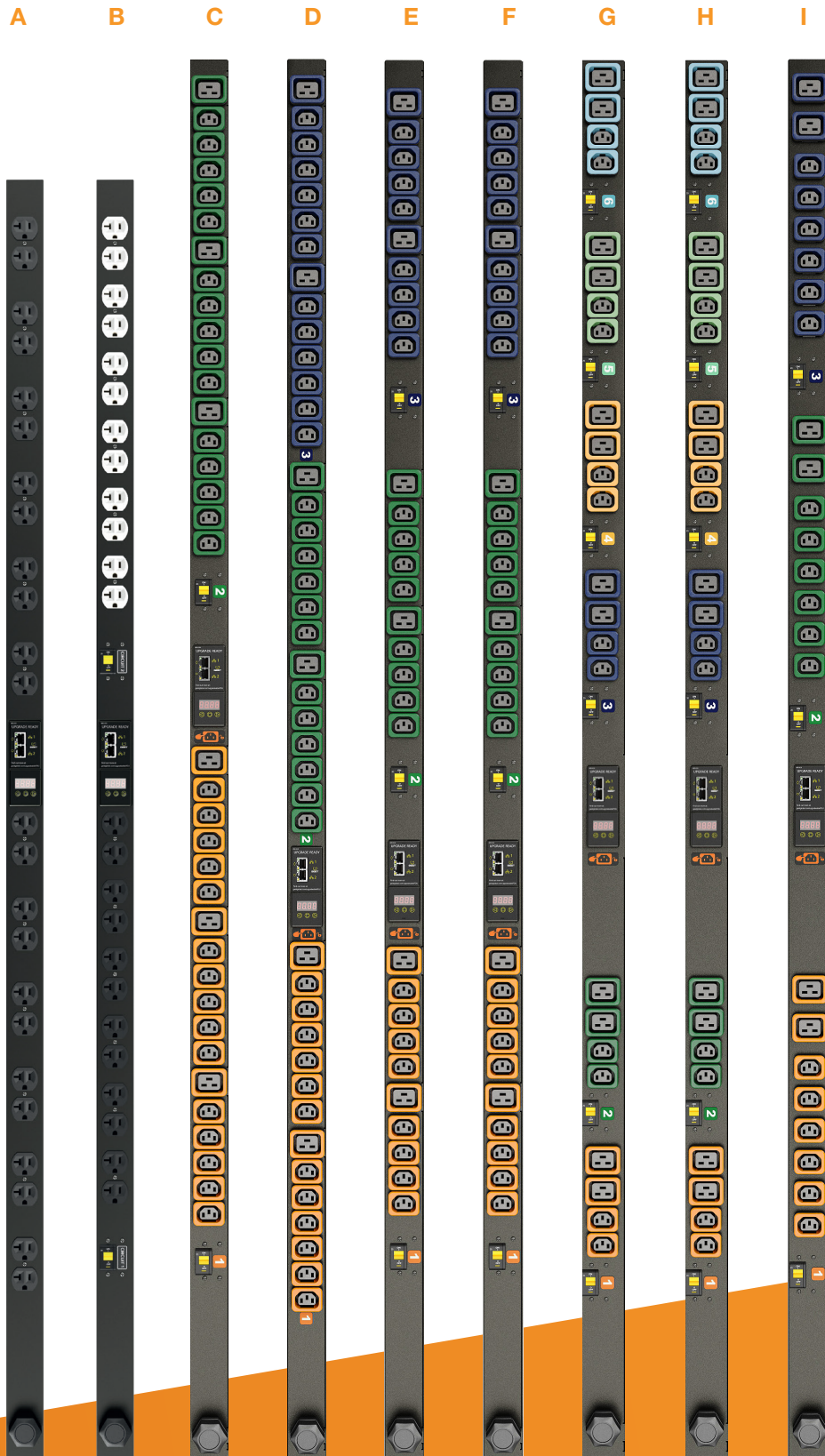
## Upgradeable Local and Remote Power Monitoring



Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type and Count	Network Port	Toolless Mounting	Chassis Dimension
<b>A</b>	<b>I20001</b>	20A	120V	1.9kW	5-20P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	61.25in and 64.75in	66.25in x 2in x 2in
<b>B</b>	<b>I20002</b>	30A	120V	2.8kW	L5-30P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	61.25in and 64.75in	66.25in x 2in x 2in
<b>C</b>	<b>I20003L</b>	30A	208V	4.9kW	L6-30P	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
<b>D</b>	<b>I20006L</b>	20A	120/208V	5.7kW	L21- 20P	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
<b>E</b>	<b>I20007L</b>	30A	120/208V	8.6kW	L21-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
<b>F</b>	<b>I20008L</b>	30A	208V	8.6kW	L15-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	61.25in and 64.75in
<b>G</b>	<b>I20021L</b>	50A	208V	14.4kW	3P+E CA	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
<b>H</b>	<b>I20017L</b>	60A	208V	17.2kW	3P+E (IP44)	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
<b>I</b>	<b>I20030L</b>	60A	208V	9.9kW	2P+E (IP44)	18 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in

Additional configurations available. See them all at [geistglobal.com/upgradeablePDU](https://geistglobal.com/upgradeablePDU).

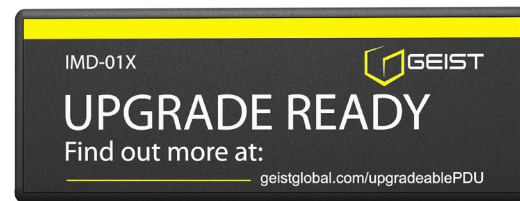




**5 YEAR**  
WARRANTY



## Basic - Blanking Panels



Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type and Count	Network Port	Toolless Mounting	Chassis Dimension
<b>A</b>	<b>I10001</b>	20A	120V	1.9kW	5-20P	24 x NEMA 5-20R	N	61.25in and 64.75in	66.25in x 2in x 2in
<b>B</b>	<b>I10002</b>	30A	120V	2.8kW	L5-30P	24 x NEMA 5-20R	N	61.25in and 64.75in	66.25in x 2in x 2in
<b>C</b>	<b>I10003L</b>	30A	208V	4.9kW	L6-30P	30 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
<b>D</b>	<b>I10006L</b>	20A	120/208V	5.7kW	L21-20P	36 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
<b>E</b>	<b>I10007L</b>	30A	120/208V	8.6kW	L21-30P	24 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
<b>F</b>	<b>I10008L</b>	30A	208V	8.6kW	L15-30P	24 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
<b>G</b>	<b>I10015L</b>	50A	208V	14.4kW	3P+E CA	12 x locking C13 / 12 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
<b>H</b>	<b>I10016L</b>	60A	208V	17.2kW	3P+E (IP44)	12 x locking C13 / 12 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
<b>I</b>	<b>I10028L</b>	60A	208V	9.9kW	2P+E (IP44)	18 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in

Additional configurations available. See them all at [geistglobal.com/upgradeablePDU](http://geistglobal.com/upgradeablePDU).





**5 YEAR**  
WARRANTY

## Inline Upgradeable Local and Remote Power Monitoring

# Upgradeable Inline Monitoring

Basic PDUs not equipped with power monitoring can be retrofit with Geist's Upgradeable inline monitor. Simply insert the device between the PDU and the power source to measure and display data locally and remotely.

This is the ideal solution for facilities that do not want to replace their entire arsenal of non-intelligent PDUs, but want power monitoring capabilities. Local current monitoring supplies instant feedback, ideal for equipment moves, adds and changes.

With remote current monitoring, data center managers can receive early notification of current threshold breach, preventing unnecessary downtime. Data from remote current monitoring can be accessed through any Web browser, and no external software is needed.

Data can also be integrated into Simple Network Management Protocol (SNMP) systems for remote notification, and the user-friendly graphical user interface (GUI) allows managers to quickly find pertinent information.

Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type	Network Port	Remote Sensor Port	Toolless Mounting	Chassis Dimension
Inline Upgradeable Local and Remote Power Monitoring + Remote Sensing										
<b>A</b>	<b>UI20020</b>	16A or 20A	100-240V	1.9-4kW	C20	Locking C19	Dual 10/100 Mbps Ethernet	Yes	14in	17in x 1.715in x 2.5in
<b>B</b>	<b>I20106</b>	20A	208V	3.3kW	6-20C & 6-20P	6-20R	Dual 10/100 Mbps Ethernet	Yes	14in	17in x 1.715in x 2.5in
<b>B</b>	<b>I20107</b>	20A	208V	3.3kW	L6-20C & L6-20P	L6-20R	Dual 10/100 Mbps Ethernet	Yes	14in	17in x 1.715in x 2.5in
<b>C</b>	<b>I20108</b>	30A	208V	4.9kW	L6-30P & L6-30P	L6-30R	Dual 10/100 Mbps Ethernet	Yes	14in	17in x 1.715in x 3.5in
<b>C</b>	<b>I20109</b>	30A	120/208V	8.6kW	L21-30C & L21-30P	L21-30R	Dual 10/100 Mbps Ethernet	Yes	14in	17in x 1.715in x 3.5in
Inline Upgradeable Local and Remote Power Monitoring										
<b>D</b>	<b>UI20019</b>	16A or 20A	100-240V	1.9- 4kW	C20	Locking C19	Dual 10/100 Mbps Ethernet	No	14in	17in x 1.715in x 2.5in
<b>E</b>	<b>I20102</b>	20A	208V	3.3kW	6-20C & 6-20P	6-20R	Dual 10/100 Mbps Ethernet	No	14in	17in x 1.715in x 2.5in
<b>E</b>	<b>I20103</b>	20A	208V	3.3kW	L6-20C & L6-20P	L6-20R	Dual 10/100 Mbps Ethernet	No	14in	17in x 1.715in x 2.5in
<b>F</b>	<b>I20104</b>	30A	208V	4.9kW	L6-30P & L6-30P	L6-30R	Dual 10/100 Mbps Ethernet	No	14in	17in x 1.715in x 3.5in
<b>F</b>	<b>I20105</b>	30A	120 /208V	8.6kW	L21-30C & L21-30P	L21-30R	Dual 10/100 Mbps Ethernet	No	14in	17in x 1.715in x 3.5in

## Inline Upgradeable Local and Remote Power Monitoring + Remote Sensing

A



B



C



## Inline Upgradeable Local and Remote Power Monitoring

D



E



F



**Geist Americas**

1777 Yolande Ave.  
Lincoln, NE 68521 USA  
**Tel:** 1.800.432.3219  
402.474.3400

**Geist DCIM**

2900 S College Ave, Ste. 2B  
Fort Collins, CO 80525 USA  
**Tel:** 877.449.4150

**Geist Asia****China**

Tiley Plaza Bldg A, Unit #2910,  
No.199 Haide 3 Road  
Nanshan, Shenzhen  
Guangdong Province, China  
Postal Code 518000  
**Tel:** +86.755.86639505

**Hong Kong**

[salesasia@geistglobal.com](mailto:salesasia@geistglobal.com)  
**Tel:** +852.8176.4860

**Geist Europe****United Kingdom**

Unit 1, The Monarch Centre,  
Venture Way  
Priorswood, Taunton  
Somerset, TA2 8DE UK  
**Tel:** +44 (0)1823.275100



**[geistglobal.com](http://geistglobal.com)**

20002802