

Vertical IP-based 8-port & 16-port Switched Power Manager with 2 Cascaded Ports



Fulfilling Your Power Requirements with IP-enabled Power Outlets

Embracing ESG Principles

PLANET IPM-08220 and IPM-16230 Vertical IP-based 8-port & 16-port Switched Power Management (IPM) devices are designed to efficiently handle power distribution for a versatile array of connected devices which meet the Environmental, Social, and Governance (ESG) principles.

Leveraging cutting-edge IP-based technology, PLANET has transformed conventional power management equipment into genuine networking devices that align with sustainable and responsible business practices.

PLANET IPM-08220 and IPM-16230 can be monitored by PLANET's Universal Network Management System (UNI-NMS) and smart discovery utility to support IT staff by remotely monitoring all network devices and powered devices (PDs) while incorporating ESG policy into the operational status assessment. This integration ensures that the device not only meets the technological needs of modern networks but also contributes to environmental sustainability, social responsibility, and robust governance in the realm of power management.

Hardware

- Designed for 0U rack-mount size
- IEC outlet models
- 8/16 power outlets that support real-time current image monitoring
- LCD panel displays current, voltage, energy, network and environment information
- Optional button to enable lock-up protection to avoid modification
- Circuit breaker can avoid damage that is caused by overload
- LCD display to visually display the operating status of ports and PDU
- Each PDU can supply a maximum load of 3800W / 7600W with 255 PDUs cascaded
- Enhanced with an environmental sensor to provide a temperature alert via email
- Supports up to 3 sensors and 2 controllers for expanded functionality (another 1 x RJ11-type, 6P; 1 x USB type-A reserved)

Power Distribution

- Maximum amps/Inlet: IEC 16A / 32A for 1 inlet
- Maximum amps/Outlet: IEC 10A for 1 outlet
- Full frequency range: 50~60Hz
- Individual power sockets can be controlled locally and remotely
- The user can set the power on sequence and the delay time for each socket
- Supports separate detection of current, power, and power factor for each power supply
- Supports separate port set threshold warning and power off

Remote Access

- Remote power control via TCP/IP and a built-in 10/100Mbps Ethernet port
- Multi browsers support (Edge, Google, Firefox, Safari, Opera)



Intelligent Power Management

The IPM-08220 and IPM-16230 boasts 8/16 customizable power outlets that can be operated independently. It can monitor power usage via the SNMP, web interfaces, or the optional button to select the LCD panel display. This flexibility enables users to efficiently access, configure, and manage multiple networking devices remotely, saving valuable time and resources.



Management

- Network communication protocols: TCP/IP, UDP, HTTP/HTTPS(TLS1.2), NTP, DHCP, Ping
- Events notification by sending pop-up message or e-mail
- Management Information Base (MIB) files for SNMP
- Naming support for outlets
- Voltage, current, wattage and total kWh report
- Sets over-current watchdog for each power outlet
- Activity log
- PDU energy usage statistics
- Zero meter clearing function
- Firmware upgrade
- The home page displays current and voltage alarms, and provides access to historical records of PDU anomalies
- PLANET's Universal Network Management System and Smart Discovery Utility remotely oversee all the operational statuses of connected PDUs.

Security

- Dynamic password verification in the login window enhances user login security verification
- Administrator and multiple users with password protection for double-layer security
- IP Filtering – Address-specific IP security masks to prevent unauthorized access

Real-time Current Monitoring

The LCD panel on the unit shows the aggregate current drawn from a power outlet. This feature aids installers in preventing overloaded circuits by issuing a visible warning when the current draw approaches the strip's maximum amperage.



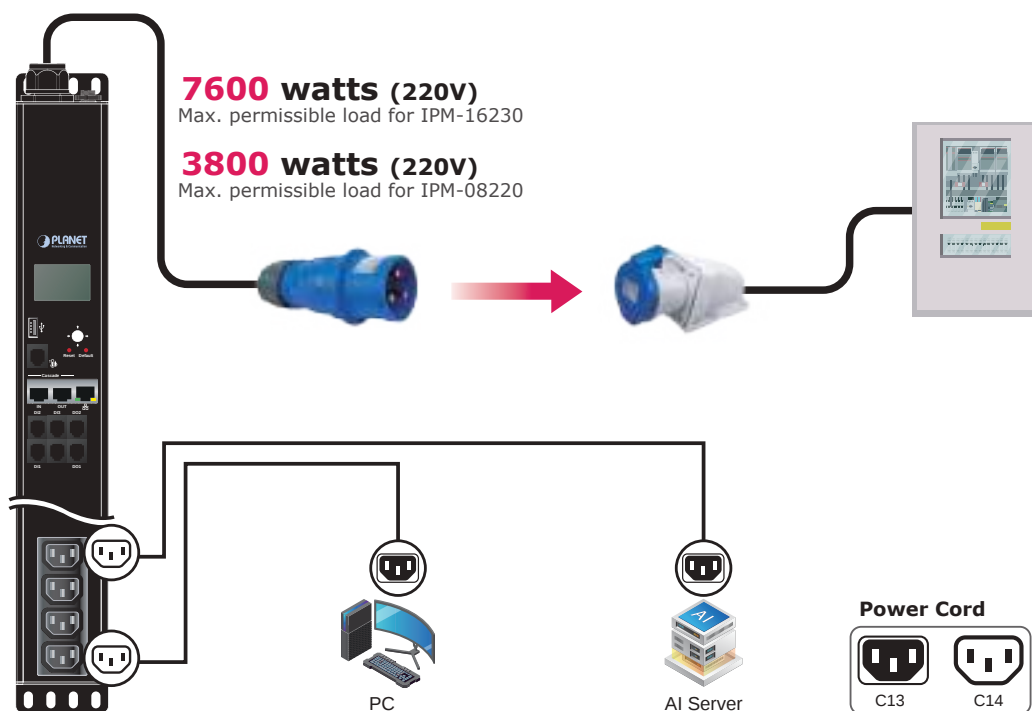
Scheduled Power On/Off

The IP-based Switched Power Manager empowers users to pre-define power schedules for IT equipment. It provides advance notice of an impending shutdown, allowing users a designated timeframe to complete tasks before the power-off sequence begins.



Enhanced Overload Protection

Unlike conventional Power Distribution Units (PDUs) that risk cutting off the entire circuit during power overload, PLANET PDU takes a proactive approach. Equipped with a built-in circuit breaker and reset switch, it ensures stable power distribution among connected equipment. The 16/32-amp circuit breaker acts as a safeguard against dangerous overloads, preventing potential damage to valuable equipment.



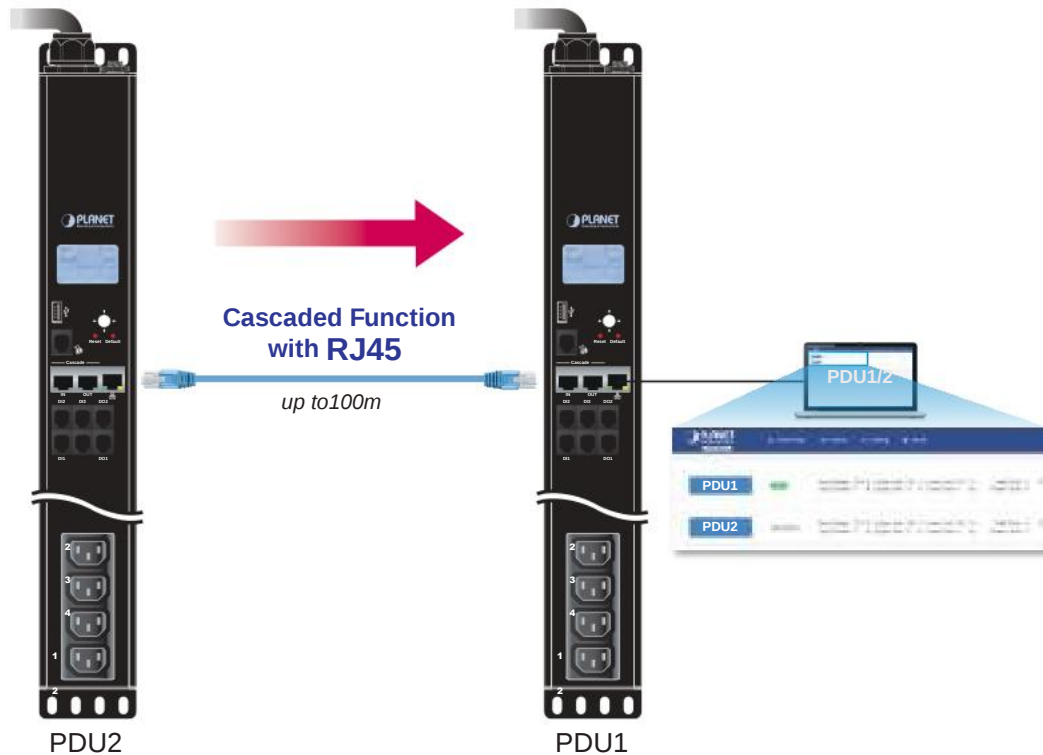
Enabling Environmental Monitoring with Precision

The IPM-08220 and IPM-16230 go beyond power management by offering dedicated port for ambient Temperature and Humidity (T/H) sensor (sensor provided with product). This thoughtful addition allows you to seamlessly integrate environmental monitoring into your infrastructure. By connecting compatible sensor to the provided ports, you gain valuable insights into the conditions of your surroundings, ensuring optimal performance and safeguarding your equipment. Additionally, the IPM-08220 and IPM-16230 feature traditional 3 DI and 2 DO ports for network cabinet access control, water intrusion detection, smoke alarm monitoring, and flash/sound siren activation. It reserves 1 I/O port and 1 USB port for potential future expansions, ensuring versatility and adaptability of the product.

Streamlined Connectivity with Cascade Ports

Your networking experience can be elevated with the IPM-08220's and IPM-16230's Cascade Input and Output Ports, ideal for seamlessly linking RJ45 inputs to the other one. This enables smooth integration of multiple PDUs, optimizing your network infrastructure.

Multi PDUs Integration



Efficient Energy Management for Cost Savings

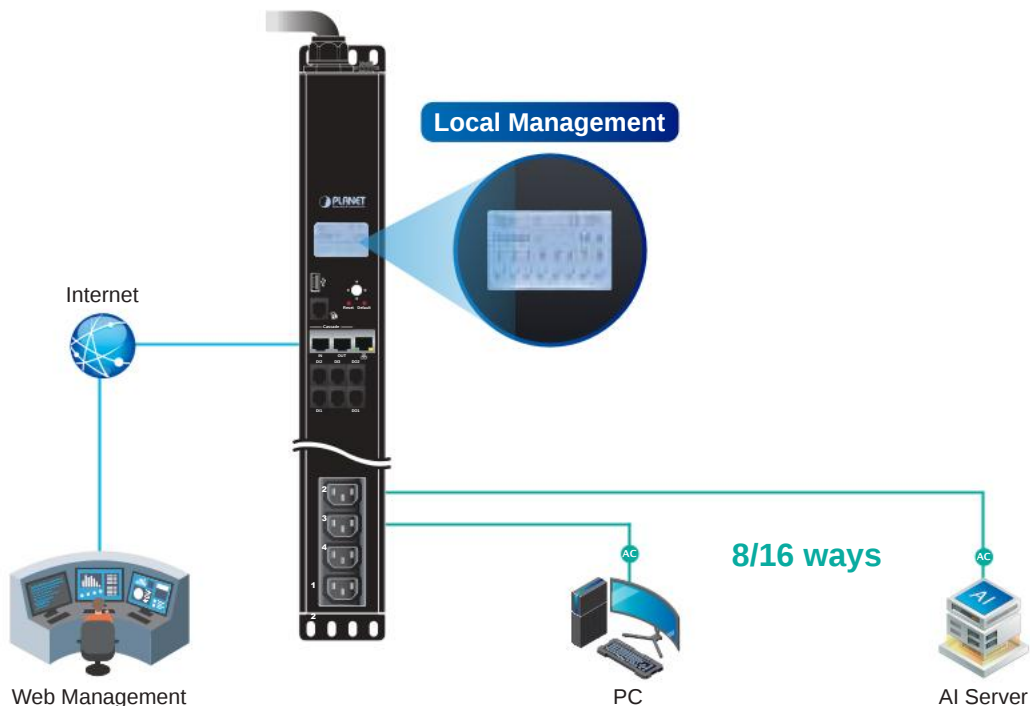
Within the configuration interface of the IPM-08220 and IPM-16230, you have the ability to monitor the current energy consumption in your office. This feature empowers you to make informed decisions to reduce energy usage, ultimately leading to significant savings on utility expenses.



Applications

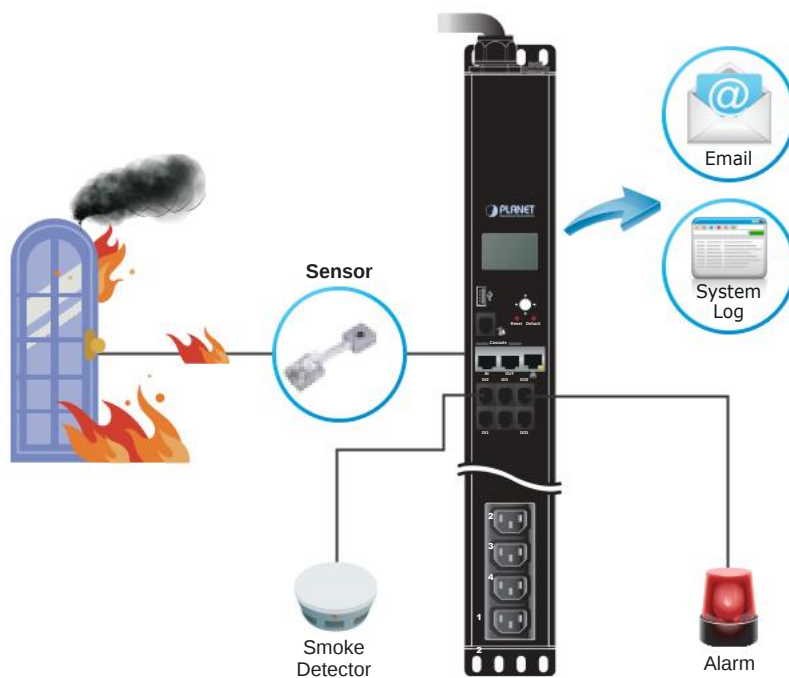
Remote Management via Network

PLANET Switched IPM consolidates power control, current monitoring, temperature and humidity monitoring with environmental sensor, web page management, e-mail, and SNMP functions together to enable technical staff to be informed and thereby to remotely deal with the relevant problems through Internet.



Environmental Sensor

The IPM-08220 and IPM-16230 are equipped with an RJ11 port for connecting an environmental sensor (provided with the product). Through a temperature and humidity sensor, it enables monitoring of nearby temperature changes for the proper functioning of the power switch. In the event of excessively high or low temperatures, the system will issue an alert and notify the user via email.



Digital Input and Digital Output for External Alarm

The IPM-08220 and IPM-16230 feature an RJ11 port to provide more types of environment detection applications for connectivity. For example, the Digital Input (DI) can be connected to a smoke detector or water level detector, while the Digital Output (DO) can be connected to an alarm. When smoke or high water level is detected, the alarm will sound. The IPM-16230 can provide better protection in terms of network cabinet security application factors.

Specifications

Product		IPM-08220	IPM-16230
Hardware Specifications			
Outlet Power Port		8	16
Inlet Power Port		1	
Network Connector		1 RJ45 port for 10/100 BASE-TX	
TH Sensor Port		1 x RJ11-type, 6P	
Sensor Port		3 x RJ11-type, 6P	
Controller Port		2 x RJ11-type, 6P	
Reserved Port		1 x RJ11-type, 6P; 1 x USB type-A	
Cascade Port		2 x RJ45-type	
Digital Input (DI)		Level 0: 0V	
		Level 1: 3.3V	
Digital Output (DO)		Level 0: 0V	
		Level 1: 3.3V	
Button		1 x Default Button	
		1 x Reset Button	
		1 x Interface Selection Button	
LED	State of the socket / Power	LCD Displays	
	10/100M	1 (Green/Orange)	
LCD Panel		Displays current, voltage, energy, network and environment information	
Housing		aluminum alloy	
Dimensions (W x D x H)		696 x 66 x 44.5 mm	1126 x 66 x 44.5 mm
Weight		2.1kg	3.1kg
Installation		0U rack-mountable	
Breaker		1 x 16A	1 x 32A
Power Distribution			
Power		Inlet / Outlet	
Voltage		100~240V	
Frequency		50~60Hz	
Connection		1 x IEC60309 Aviation connector / 8 x IEC320 C13	1 x IEC60309 Aviation connector / 16 x IEC320 C13
Maximum Current		16A	32A
Maximum Line Current		10A	
Management			
User Account		Operator/Visitor	
Management / Monitor Utility		Web browser, SNMP	
		PLANET Universal Network Management System	
		PLANET Smart Discovery Utility	
Security		IP filter	
Standards Conformance			
Computer Interface		IEEE 802.3 10BASE-T	
		IEEE 802.3u 10/100BASE-TX	
Regulatory Compliance		CE, FCC	
Environments			
Operating Temperature		0 ~ 60 degrees C	
Operating Humidity		0 ~ 90%	

Ordering Information

IPM-16230	Vertical IP-based 16-port Switched Power Manager with 2 Cascaded Ports
IPM-08220	Vertical IP-based 8-port Switched Power Manager with 2 Cascaded Ports

Related Products

IPM-8221	IP-based 8-port Switched Power Manager with 2 Cascaded Ports
KVM-210-08M	17" 8-Port Combo VGA LCD KVM Switch
IKVM-210-16M	17" 16-Port Combo VGA LCD IP KVM Switch
IKVM-210-08	8-Port Combo IP KVM Switch

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IPM-08220/IPM-16230