

Product Specifications

IP-based 8-port Switched Power Manager

IPM-8220

Release 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2016/06/01	Brandon Wang	Initial release

Author	Brandon Wang	Editor:	Brandon Wang
Reviewed by:	Jonas Yang	Approved by:	Kent Kang

1. PRODUCT DESCRIPTION



Meeting All Your Power Needs via IP-based Power Outlets

PLANET IPM-8220 is an 8-port IP Power Management (IPM) device that provides the useful function of managing power for any combination to connect with itself. With the innovative IP-based technology, PLANET has made the traditional power management equipment into true networking devices.

Intelligent Power Management

The IPM-8220 offers 8 power outlets, each of which can be controlled or monitored individually by the console or SNMP manager software or web interfaces, or by setting the button. They allow users to access, configure, and manage many networking devices at the same time from remote locations to save valuable time.

Electric Current Monitored on Display

The aggregate current draw per IPM rack is displayed on the unit via a digital display. The local digital display helps installers avoid overloaded circuits by providing a visible warning when the current draw is close to the maximum amperage draw of the strip.

Scheduled Power On/Off

The IP-based Switched Power Manager allows you to pre-define a power schedule for IT equipment. It alerts users to an upcoming shutdown, and then waits a predefined amount of time to allow users to finish their work and sign off.

Overload Protection

Securing you against the risk of getting the entire circuit cut off, commonly happened with ordinary power distribution units (PDUs), when there is overloaded power, PLANET PDU, with a built-in circuit breaker and reset switch, ensures the stability of power distribution among its equipment. Its 16-amp circuit breaker prevents dangerous circuit overloads that could damage the equipment.

Energy and Cost Saving

You can also check the current energy consumption in your office within the configuration interface of the IPM-8220. It helps you reduce energy consumption, thus saving expenses on utilities.

2. PRODUCT FEATURES

➤ **Hardware**

- 1U rack-mount size design
- IEC outlet models
- 8 power outlets that support real-time current image monitoring
- 8 LEDs show power status for each power outlet
- LCD panel displays current, max. alarm, voltage and network information
- Switch/Set button to lock-up protection to avoid modification
- Buzzer will ring when total power consumption value exceeds set value
- Circuit breaker can avoid damage that is caused by overload
- Versatile sensors supported through environmental sensor box (ESB) inputs

➤ **Power Distribution**

- Maximum Amps/Inlet: IEC 16A for 1 inlet
- Maximum Amps for 8 Outlets: IEC 16A for 8 outlets
- Full Frequency Range: 50~60Hz
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power

➤ **Remote Access**

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

➤ **Management**

- Provides Install Wizard to ease users' setting of parameters
- Events notification by sending pop-up message, trap, SMS or e-mail
- Supports Management Information Base (MIB) files for SNMP
- Naming support for outlets
- Power-on sequencing intelligently turns on/off devices based on event occurrence or planned schedule
- Voltage, current, wattage and total kWh report
- Sets over-current watchdog for each power outlet
- External UPS can be installed for a possible power outage

➤ **Security**

- Web page supports 1024-bit SSL security encryption transmission
- Supports Secure Socket Layer V3 and Secure Shell V1 protocols
- Administrator and multiple users with password protection for double-layer security
- IP Filtering -- Address-specific IP security masks to prevent unauthorized access

3. PRODUCT SPECIFICATIONS

3.1 Components

CPU	32bit B5 ARM processor
LAN Chipset	sums 8720a
RAM	8MB
Flash	16MB

3.2 Functional Specifications

Product	IPM-8220	
Hardware Specifications		
Outlet Power Port	8	
Inlet Power Port	1	
Sensor Port	1 x RJ11-type, 6P	
Com Port	2 x RJ45-type	
Network Connector	1 RJ45 port for 10/100 BASE-TX	
Button	1 x Switch button 1 x Set button 1 x Reset button	
LED	1 x Alarm LED 1 x System LED 1 x Reset and warning indicating LED 8 x Outlet status LED	
LCD Panel	Displays total current, max. alarm, voltage and IP	
Housing	Metal	
Dimensions (W x D x H)	432 x 153 x 44 mm	
Weight	2.5kg	
Installation	1U rack-mountable, desktop	
Buzzer	1	
Breaker	1 x 16A	
Power Distribution		
	Inlet Power	Outlet Power

Voltage	100~240V	
Frequency	50~60Hz	
Connection	1 x IEC320 C20	8 x IEC320 C13
Maximum Current	16A	
Maximum Line Current	-	10A
Management		
User Account	General/Manage/Administrator	
Management Utility	Web browser, SNMP software, Windows-based utility, Telnet	
Security	IP filter/MAC filter/Secure 128-bit SSL encryption	
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%	
Operating Altitude	0-4500 meters	

3.3 Physical Specifications

➤ Rear Panel



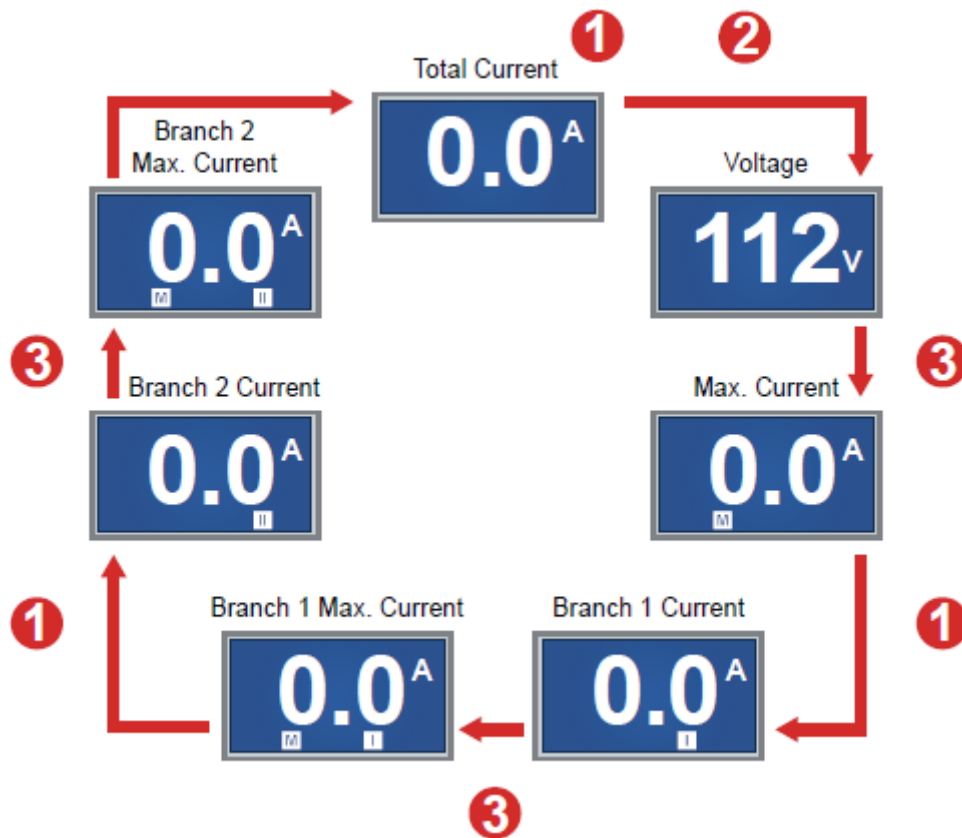
➤ Front Panel



1	System Indicating Light Slow flashing: Normal operating Rapid flashing: Normal updating
2	Reset and Warning Indicating Light
3	Temperature/Humidity Port for IPM-ESB Connection
4	Reset Button
5	RJ45 Ethernet Port
6	USB Connected Port (Future Feature)
7	COM2/1 2 Com Ports provided to enable terminal control, API control and 2 mutual cascading
8	Circuit Breaker Protection
9	Power Inlet
10	Power Outlet Note: The maximum output current is 16 amps.
11	LCD Panel: To display total current, branch 1, branch 2, voltage and IP
12	Switch Button Provide LCD panel in order to switch the total current, power switch control and IP
13	Set Button Provide LCD panel in order to switch the total current, branch current, voltage, power switch current, power switch control and IP; set alarm current
14	Buzzer
15	Alarm Indicating Light Lights remaining lit: Alarm has occurred Slow flashing: There was current overloading
16	Power Outlet Indicating Light

➤ **Current Panel Operation**

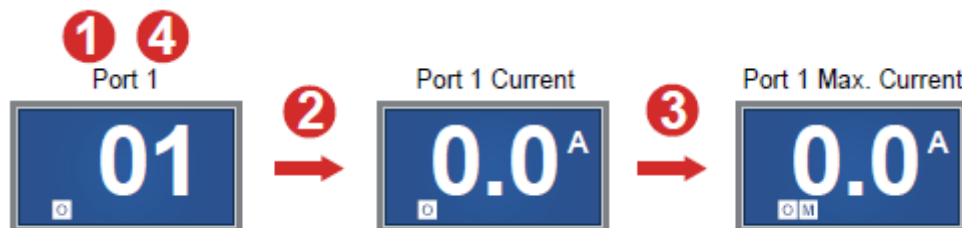
When the LCD panel only displays figures and the sign of "**A (AMP)**", it means total current. Switch with the **Set button** to show the following sequence:



- **1** LCD menu shows total current, and current values of branch 1 and branch 2. → Hold the **Set button** for **3 seconds** with a **long beep** to enter alarm current setting. → Enter **flash mode** (LCD will flash after entering setting mode, "S" and "W" will display at the bottom of LCD). → Press the **Set button** to increase the alarm current by **0.5A** in each press. → Hold the **Set button** for **3 seconds** with a "beep" to save the setting.
- **2** Press the **Set button** to show the **voltage** information.
- **3** Press the **Set button** to show the maximum current record of all branch/branch 1/branch 2. → Hold the **Set button** for **3 seconds** with a **long beep** to adjust to a zero point.

➤ **Power Outlet Panel Operation**

When the LCD panel shows figures and "0", the information shown is the **branch circuit power outlet**. By clicking the **Set button**, the following information will be displayed in sequence:



- **1** Press the **Switch button** to **Port 1~8** mode.

- **2** Press the **Set button** to show power outlet current. → Hold the **Set button** for **3 seconds** with a **long beep** to enter power outlet alarm current setting. → Enter **flash mode** (LCD will flash after entering setting mode, "S", "O" and "W" will display at the bottom of LCD). → Press the **Set button** to increase the alarm current by **0.5A** in each press. → Hold the **Set button** for **3 seconds** with a "beep" to save the setting.
- **3** Press the **Set button** to show "**maximal power outlet current record**", → Hold the **Set button** for **3 seconds** with a **long beep** to adjust to a zero point.
- **4** Hold the **Switch button** for **3 seconds** with a **long beep** in **Port 1~8 mode**. → Enter Power On/Off mode ("L" will be added in front of the original line number). → Double-click the Set button to switch between power on and off.



- When LCD panel displays "**Port 1~8 mode**". → Hold the **Switch button** for **3 seconds** with a **long beep** till "**LOC**" displayed. It means this circuit power is locked and cannot be operated through the panel. Please go to the **Peripheral** of web UI and check the setting.



➤ **IP Panel Operation**

Press the **Switch button** to show words like "**IP**" → Press the **Set button** to switch the display of each IP address. IP can only be set by the web page rather than the LCD panel.



3.4 Environmental Specifications

Temperature

Operating	0 ~ 60 degrees C
Storage	0 ~ 65 degrees C

Operating Humidity

Operating	0 ~ 90% (non-condensing)
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Storage	5 ~ 95% (non-condensing)
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3.5 Electrical Specifications

Power Input Voltage	IEC320 C20 inlet, 16A, 100~240V AC, 50~60Hz
Power Output Voltage	IEC320 C13 outlet, 16A, 100~240V AC, 50~60Hz
Loading	10Amp for each outlet Max. of 16Amp for Outlets 1~8

3.6 Regulatory Compliance

CE, FCC

3.7 Reliability

MTBF> 50,000hrs @ 25 degrees C

3.8 Basic Packaging

- 1 x Switched IPM
- 1 x Quick Installation Guide
- 1 x Power cord
- 1 x Rack-mounting Kit

3.9 Package Information

Dimensions (W x D x H)	518 x 240 x 80 mm
Weight	3.1kg
Carton Dimension (W x D x H)	515 x 370 x 540 mm
Carton Weight	25.5kg
Carton Unit	8pcs in one carton

APPENDIX A: Default Setting

Default DHCP Client	On
Default IP Address	192.168.0.10 – if no DHCP existed in the network
Default Port	80
Default Login User Name	Set itself
Default Login Password	Set itself
Search Tools	ip_search