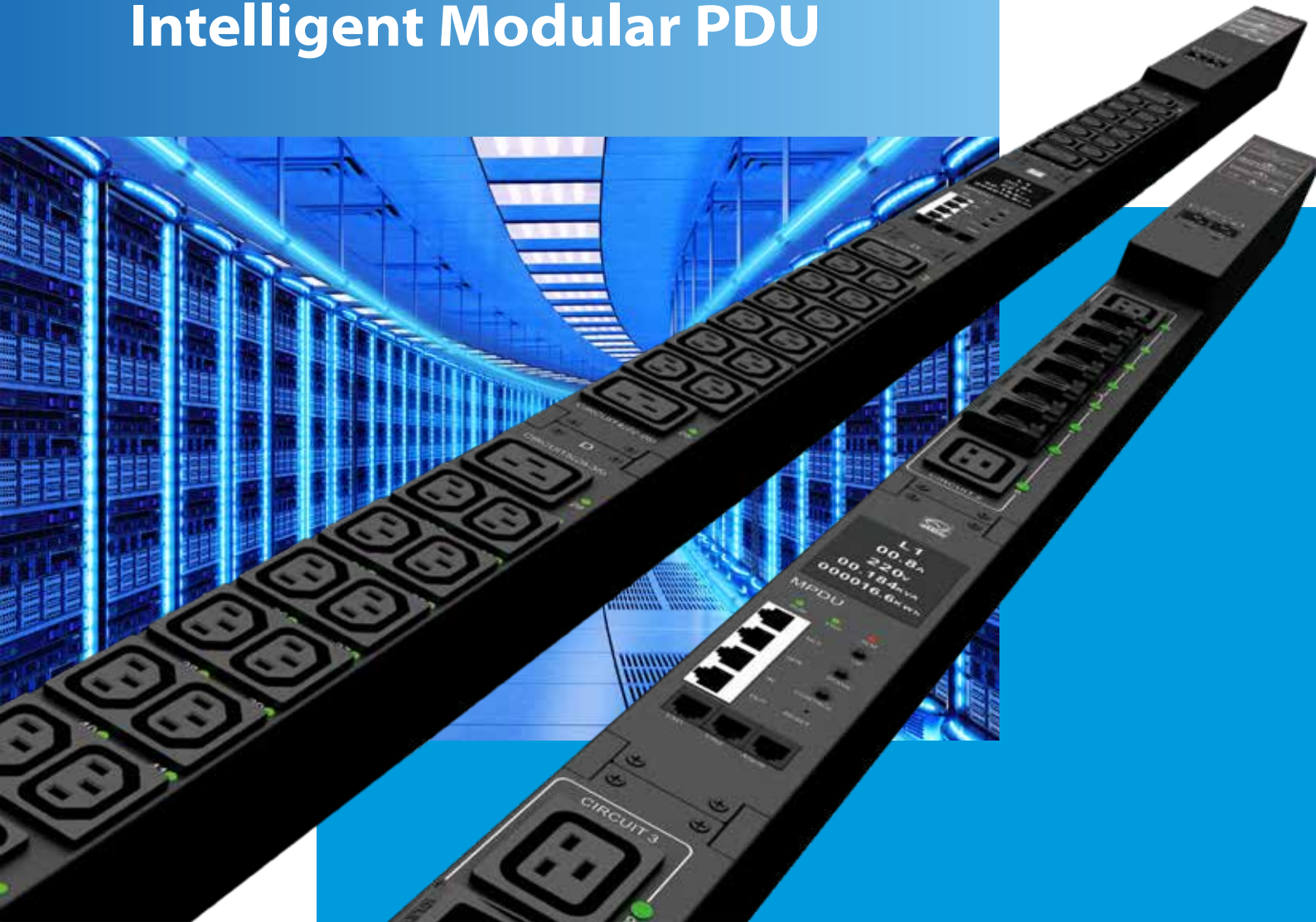


Class D

# Intelligent Modular PDU



**FLEXIBLE | RELIABLE | DURABLE**



## Designed For High Availability

- Hot-swappable and upgradeable monitoring features allow users to repair or upgrade the PDU without power interruption thus increase the online time of IT devices.
- Secure cords with patented locking outlets to prevent accidental plug falling.



## Optimized Energy And Capacity Management

- Quickly determine exactly where energy is being used. To simplify load balancing and reveal locations where spare power capacity is.
- Saving energy by turn-off idle servers.
- Provide on-the-spot status and help cut cooling costs.



## Simplified integration with management tools

- Integration with Manager software to simplify implementation and change management translating to real cost savings.
- SNMP v3 and Modbus support.
- Support for integration with higher level data centre management software provided by third parties.



## Compatibility With Racks And Power Chain

- Compatible with all industry racks and can be pre-installed in major brand racks to reduce installation costs and save implementation time.
- Available in all major global voltage and amperage combinations typically used in data centre or remote sites

# FEATURE



## High Resolution LCD Display

2.8" FTF color LCD with high resolution displays crystal clear and rich information of PDU data and configuration.



## Billing Grade Accuracy

Accurate kWh metering function measures actual energy usage for charge-back billing.



## Environmental Monitoring

Optional plug-and-play environmental sensors alert potential threats which could cause downtime.



## Daisy-Chain

Enables multiple MPDUs to share the same network thus to save IP resources.



## Upgradable & Hot-Swap Controller

The Controller can be replaced or upgraded without the need to power down your rack.



## Upgradable & Scalable Output Modules

Meet the needs of developing technologies and changing business.



## Flush Mount Low Profile Design

Low profile magnetic circuit breaker and slim chassis save valuable space in the rack.



## Flexible Mounting Options

Pre-installed button or brackets mounting for vertical MPDUs into the rack.



## Cable Retention Clip

Effectively prevent downtime caused by accidental cable fallout.



## Various Outlets Available

Built-to-Order options available for additional configuration needs like UK, Schuko, Australia or even mixed receptacles.



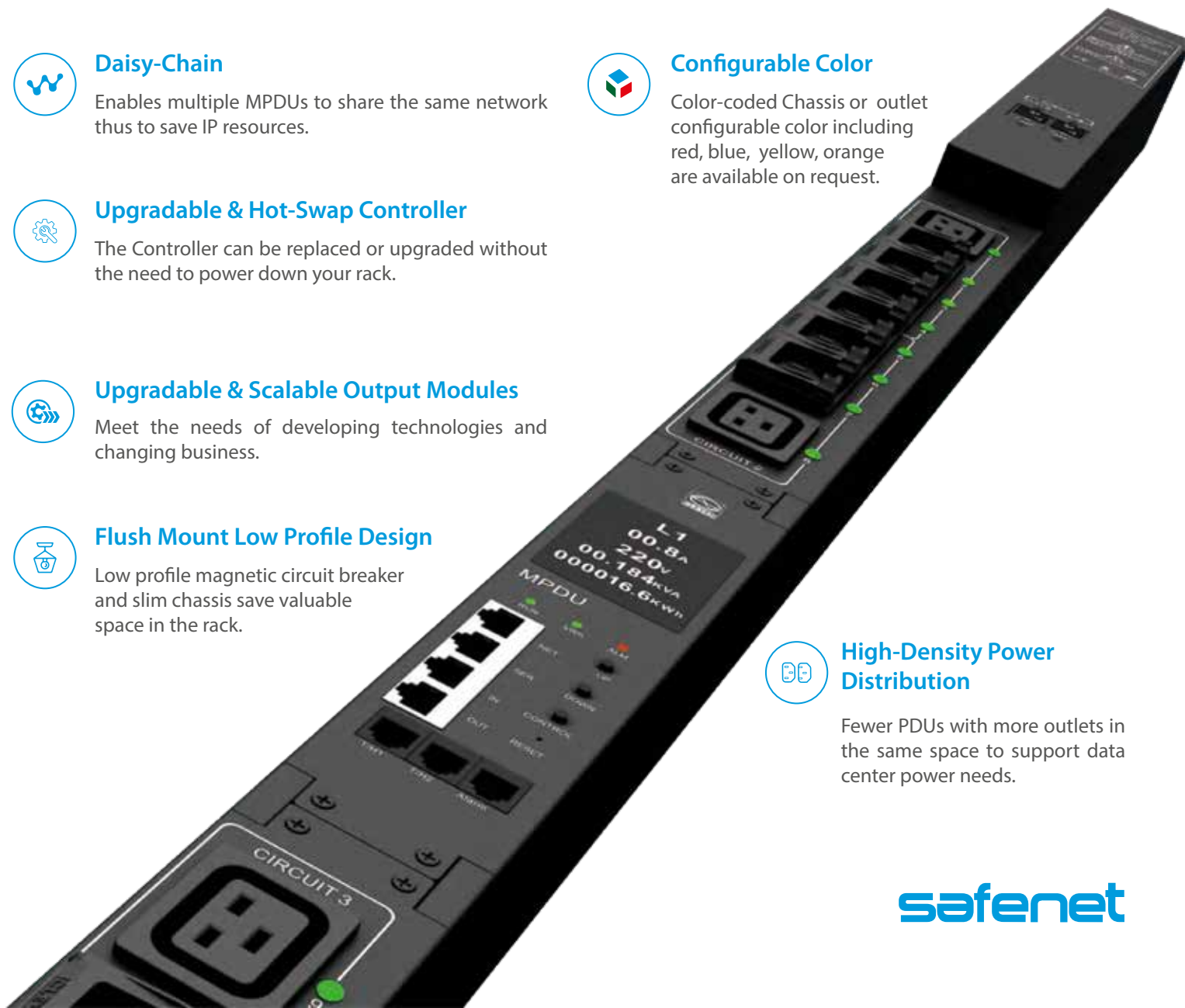
## Configurable Color

Color-coded Chassis or outlet configurable color including red, blue, yellow, orange are available on request.

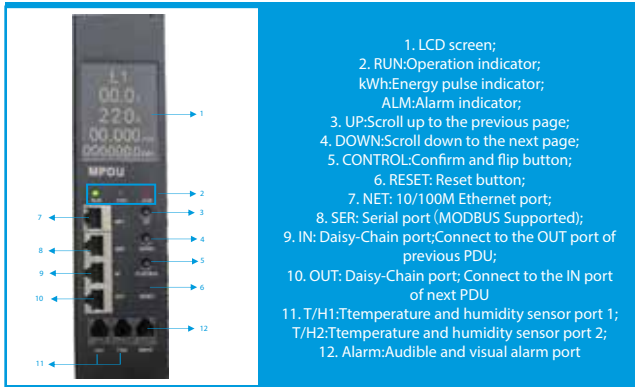


## High-Density Power Distribution

Fewer PDUs with more outlets in the same space to support data center power needs.



SAFENET IMPDU provides users with local display, Web interface, Safenet Manager software or 3rd part DCIM to monitor and manage all PDUs.



## Local LCD Display

Remove the risk of overload when deploying or moving critical IT equipment through a local crystal clear LCD display, offering better capacity management in addition to reliable distribution.

## Built-in Web Interface

- Monitors PDUs parameters via web browser with no dedicated software required.
- Simultaneous view of up to 4 MPDUs.



## MANAGED Manager

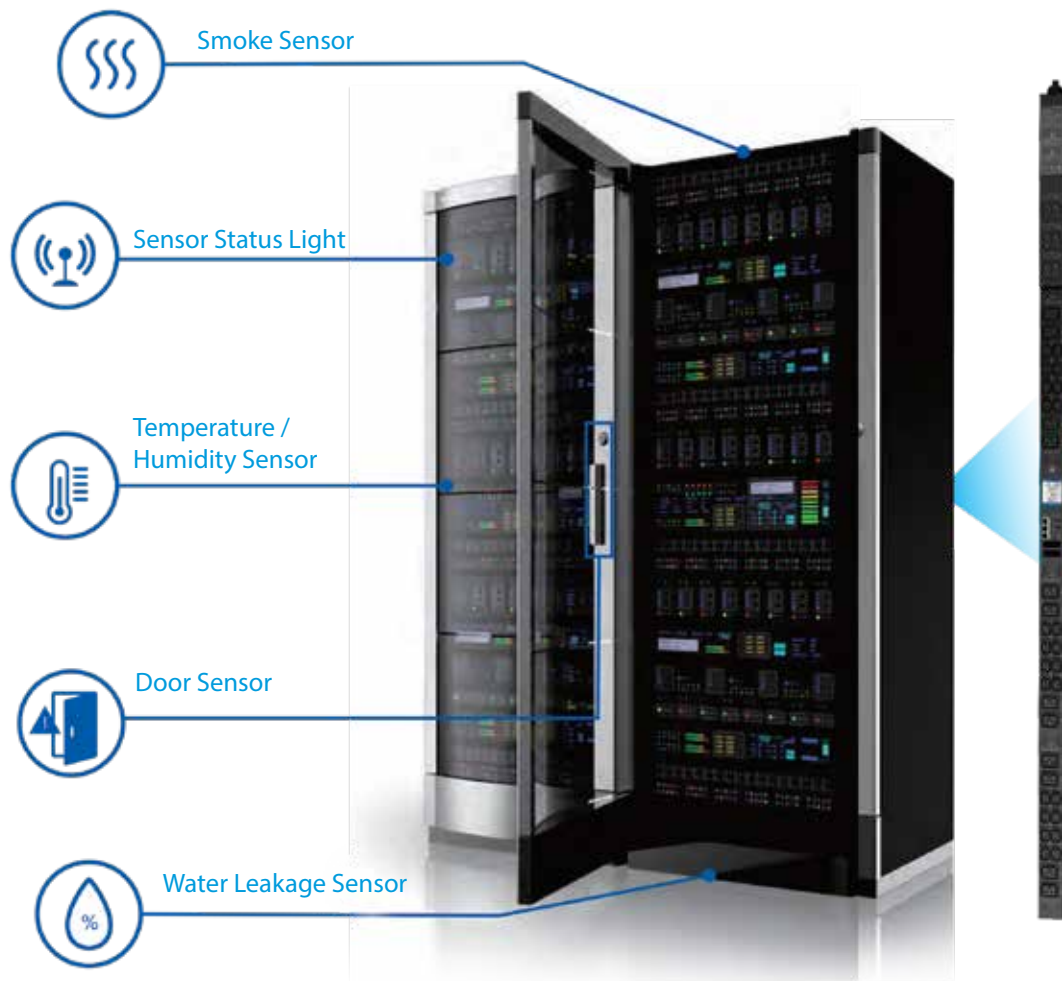
Enable you to manage thousands of PDUs with a combined dashboard view, management, consolidated alerts & reporting.



## DCIM Integration

Integrate your Intelligent MPDU to communicate with your existing DCIM or BMS solution through SNMP or standard Modbus interface.

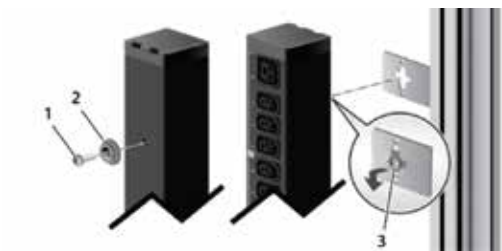
The MPDU series is designed to suit the operational requirements of next-generation data centres. MPDU is a Sustainable, Upgradeable and Maintainable (SUM) PDU system which can be re-configured or upgraded hot without affecting the operation of a data centre.



## FLEXIBLE INSTALLATION



Side barcket installation



Toolless button installation

Main Fuction	Details
<b>PDU LEVEL</b> Power Measuring & Monitoring	PDU Level Power Measurements (V, A, VA, kWh, PF)
	Phase Level Power Measurements (V, A, VA, kWh, PF)
	Circuit Breaker Level Current Measurements
	High-Accuracy, Billing-Grade Metering Capabilities
	Event Log Record / View.
	User-Defined Alarm Thresholds & Notifications.
<b>OUTLET LEVEL*</b> Management	Remote On / Off Power Control By Individual Outlet.
	User-Defined Power-On Delay to Individual Outlet
	Last Known State Power-on.
<b>OUTLET LEVEL*</b> Power Measuring & Monitoring	Outlet-Level Power Measurements (A, VA, pf).
	Outlet-Level Watt-Hour Energy Metering (kWh).
	Outlet-Level Alarm Thresholds & Notifications.
Circuit Breaker Status Monitoring	Real-Time Breaker ON / OFF Status Monitoring And Alarm
Environmental monitoring	Plug & Play Environmental Sensors Including Temperature & Humidity.
	Customizable Alarm Thresholds And Notifications.
Network Management	Supports HTTP, HTTPS, Telnet, SSL, SNMP V1 / V2C / V3, NTP, SMTP.
Browser Support	Support IE, Google, Firefox etc.
System Log	Input Voltage, Input Current and Output Current Alarm
	Temperature / Humidity Alarm
	User Log-in Operation, Setting & Configuration
	Create New User, Delete User
	Switch On / Off / Reboot
	Export Logs
	Multi-User Operation System, Compatible with Various Browsers
System Management	Keep the Former On / Off State After Reset
	Support Remote and Batch Upgrade
	Multi-User with Different Level of User Access Accounts
	Support Mass Deployment, Centralized Management, Group Configuration and Upgrade
	Threshold of Temperature / Humidity Settings
	Quick Setup and Backup
E-mail Alarm Notification	
Network Protocol Support	HTTP, HTTPS, SSL, Telnet, TCP, SNMP v1/v2/v3, IPv4, DHCP, UDP, DNS, SMTP, SMTPS, NTP
User Management	User Access Permission Settings
	Outlet Access Permission Settings
	Energy Return to Zero Permission Settings
Input / Output Threshold Settings	Threshold Settings of Input Current / Voltage
	Threshold Settings of Individual Outlet Current & Voltage
	Return to Zero Settings for Total Energy
	Schedule Individual Outlet Event or Power On / Off Delay
Alarm Type Support	Low/High Voltage Alarm
	Overload or Near Overload Alarm for Input Current & Individual Outlet
Alam & Notification	LCD Displays the Alarm and Buzzer Sounds
	Web Interface Show the Value Exceeded in Red
	Send E-mail to Administrator Automatically
	SNMP Sends Trap Alarm Information
	Logical Port Outputs Level Signal

# SPECIFICATION

Main Function		MD1320-1604	MZID-160-1806	MZID-330-3606		
Input	Phase	Single Phase		Three Phase		
	Nominal Voltage (Volt)	250	230	400		
	Max Input Current (Amp)	32	63	32A Per Phase		
	Rated Input Current (Amp)	32	63	32A Per Phase		
	Power Capacity (KW)	7.36	14.5	22		
	Frequency (Hz)	50/60				
	Plug Type	IEC60309 (2P+E)	IEC60309 (2P+E)	IEC60309 (3P+N+E)		
	Power Cord Spec	3x6.0mm <sup>2</sup> x 3 m	3 x 10.0mm <sup>2</sup> x 3 m	5 x 6.0mm <sup>2</sup> x 3 m		
	Wiring Style	L-N Wiring				
Output	Nominal Voltage (Volt)	230				
	Max Output Current	32	63	32A Per Phase		
	Total Outlet Quantity	20	24	42		
	Socket	IEC320 C13 With Anti-Fall Lock	Rated Current (Amp)	10		
			Outlet Quantity	16	18	36
		GB2099.3	Rated Current (Amp)	16	-	
			Outlet Quantity	04	-	
		IEC 320 C19	Rated Current (Amp)	-	16	16
Outlet Quantity			-	06	06	
Control Ports	Ethernet	1 x RJ45 Port				
	Serial (MODBUS Supported)	1 x RS485 Port				
	Daisy-Chain (In-Out)	2 x RS485 Ports				
	Sensor	2 x RJ11 Ports				
	Alarm	1x RJ11 Port				
Protection	Circuit Overload	None	4 x 16A hydraulic Circuit Breakers; Single Pole	6 x 16A hydraulic Circuit Breakers; Single Pole		
Operating Environment	Temperature	-10~45°C				
	Relative Humidity	5%~95%				
	Elevation (m)	0~3000				
Mechanical Specification	Dimension (mm)	1612x66.6x44.4 (Aluminum Alloy Case)	1829 x 56 x 52 (Sheet Metal Case)	1829 x 56 x 61 (Sheet Metal Case)		
	Physical Stacking	Daisy chain up to 4 Rack MPDU's (1 master 3 slaves)				
	Weight (kg)	07	10	12		
	Mechanical Design	Rear Button Mounting				
Certification	CE RoHS	√	√	√		

## Ordering Information

Part Number	Description
MD1320-1604	32Amp Single Phase Intelligent Modular PDU
MZID-160-1806	63Amp Single Phase Intelligent Modular PDU
MZID-330-3606	32Amp Three Phase Intelligent Modular PDU