PowerLine Module

GE LAN **|** RS-485 **|** DI/DO **|** Industrial IoT **|** ITU-T G.hn

PM-1540, PM-1510

As per ITU-T standards, Comtrend's Power Module series utilizes G.hn technology to provide a wired, secure, bounded latency, high speed, and real-time connection. With Gigabit LAN port(s), RS-485 and DI/DO interfaces, Power Modules can collect and transfer data over power lines from power meters (or EVSE) and IoT devices to replace Ethernet cable wiring/unstable wireless connections of existing field applications. It enables significant cost savings on installation, maintenance and wiring materials.

The Power Module series works within an electric wire domain of up to 250 nodes; enabling large scale deployment, ideal for EV charging station (EVSE) backend communication, smart parking and data centers.

From an installation point of view, the Power Module design provides a terminal block (for power wire insert), mounting holes and a DIN rail mounting kit option.

KEY FEATURES

- Data and power on a single wire, reuses existing wiring
- Up to 250 nodes in one power group connection
- Up to 16 levels of repetition
- Reaches up to 600 meters in field tests
- Automatic Self-Healing - node to node will find the best path via software
- Plug and Play

PM-1540,PM-1510

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SPECIFICATIONS

HARDWARE					
Model	PM-1540	PM-1510	PM-1510PoE	PM-1510dc	PM-1510s
Ethernet Port	4	1	1	1	1
Data In / Data Out	1	1	1	1	Optional
RS-485	1	1	1	1	Optional;
Others	NONE	NONE	PSE/802.3 at 15.4W for Surveillance	(i). SFP as WAN (ii) 12Vdc/1.5A powering gateway	PCB package for integration with 3rd party
DIN Rail Kit	Optional	Optional	Optional	Optional	NONE

*GIGABIT ETHERNET

IEEE 802.3bz

10/100/1000 BASE-T, auto-sense

Support MDI/MDX

POWER LINE COMMUNICATION

ITU-T G.9960 & G.9961 compliant

G.hn 50MHz MIMO Boost

MANAGEMENT

HTTP Web-based (optional)

TR-069 over IPv4/v6 dual stack (Optional)

MODULATIONS

OFDM, FEC

DIMENSIONS

PM-1540, PM-1510, PM-1510PoE, PM-1510dc

115mm (H) x 65 mm (W) x 21 mm (PCB w/components)

120mm (H) x 70 mm (W) x 26.5 mm (with housing)

PM-1510s

75mm (H) x 75 mm (W) x 21 mm (PCB w/components)

ENVIRONMENT

Temperature	Operating: 10°C ~ 70°C (-40°C ~ 70°C as an option)
	Storage: -25°C ~ 65°C (-13°F ~149°F)
Humidity (Non-condensing)	Operating: 10 ~ 90% RH, non-condensing
	Storage: 5 ~ 90% RH, non-condensing

ACCESSORY

DIN Rail mounting kit (Optional)

Warning

· Disconnect the PLC from the power source before servicing
· Do NOT open the casing
· For indoor user only
· Do NOT use near water

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Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.