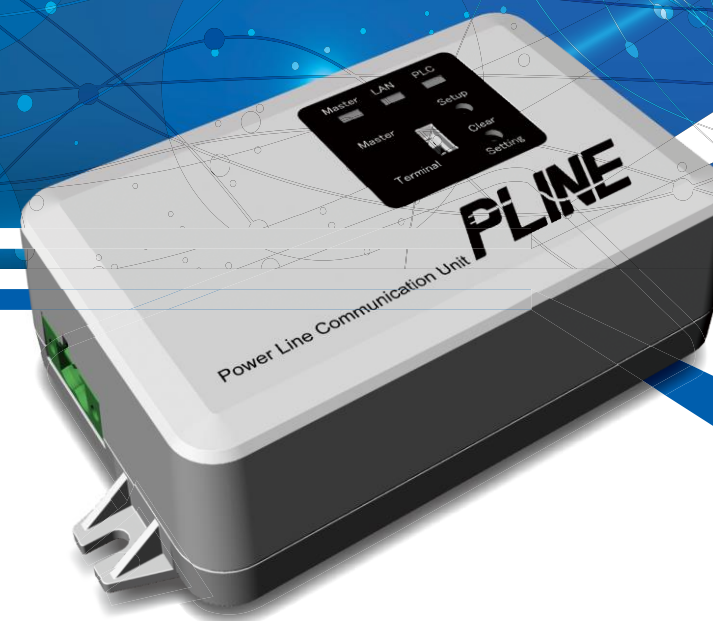


Item		Contents		
Model		TH-PLC-DCRW		
Basic Information	Ope. Mode	Standard Mode	Multi-hop Mode	
	Comm. Dist	100 – 2000m (follow Wire Spec)	10 times standard prod (max. 10 hops)	
	Connc. Device	Max. 128 unit	Max. 1024 unit	
Interface	Comm. Line	Comm. Lines	Twisted pair wire, intercom cable, telephone line, parallel two-wire, coaxial cable	
		Frequency	2 – 28 MHz	
		PHY Speed	240 Mbps Max (Theoretical Value)	
	Data (Ethernet)	Standard	10Base T/100BaseTX, AutoNegotiation, AutoMDI/MDI-X	
		Protocols	TCP/IP (IPv4/IPv6)	
		Comm. Speed	95Mbps (1:1 UDP)	35Mbps (1:1 UDP)
	Data (RS485)	Comm. Meth.	Half-Duplex	
		Comm. Speed	1200 – 230400bps (initial value 115200bps)	
		Parity	Odd/Even/No (No Initial Value)	
		Stop Bit	1bit/2bit (initial value 1bit)	
		Data Length	7bits/8 bits (initial value 8bits)	
		Connc. Device	32 units (including this unit)	
	User	Termination	Turn the termination resistor on/off with a switch	
		Connc. Signal	A: Signal + B: Signal - G: GND	
		LED	Master/LAN/PLC	
Other	Switch	Master-Terminal/Setup/Clear/Termination Resistor		
	Ope. Volt	DC16V~36V		
	Usage Condi.	-10 to +55°C, 20 to 80% RH (no condensation)		
Dimension	Structure	Non-waterproof, non-drip-proof, non-dustproof		
	Screw fastening M3 screw 2 places			

Save wiring and solve wireless problems!

PLINE®



Communication	Practicability	Long-distance	Interface
Ethernet network communication is possible with two wires	Easy to connect because there is no polarity	Multi-hop function allows communication up to 10km	Ethernet and RS485 I/F are implemented one port each
Possible on spare and free lines (telephone lines, etc. that are no longer in use)	Topology-free connection		Ethernet and RS485 information communicated over the same cable
Power Delivery DC24V at the same time			

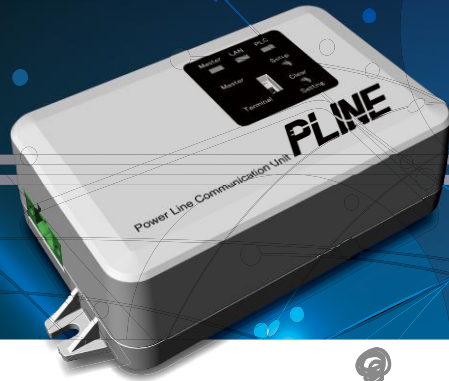
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 URL: <http://www.toho-tec.co.id>

*仕様・その他の記載内容は予告なしに変更する場合がありますので予めご了承ください。

Network Cable Revolution

Communicate with any cable over two wires



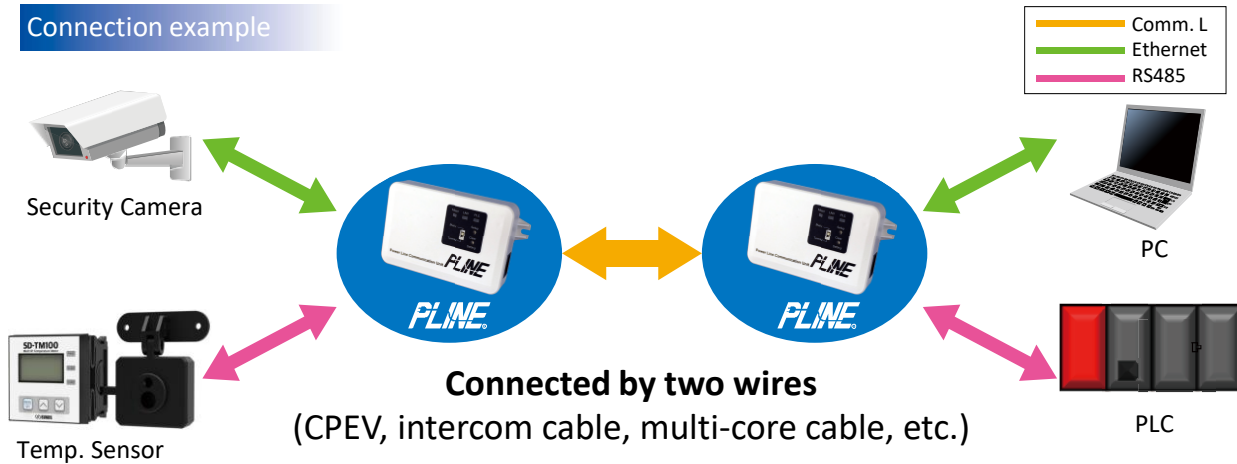
1 Features



New network development necessary, due to IOT installation

We will respond comfortably

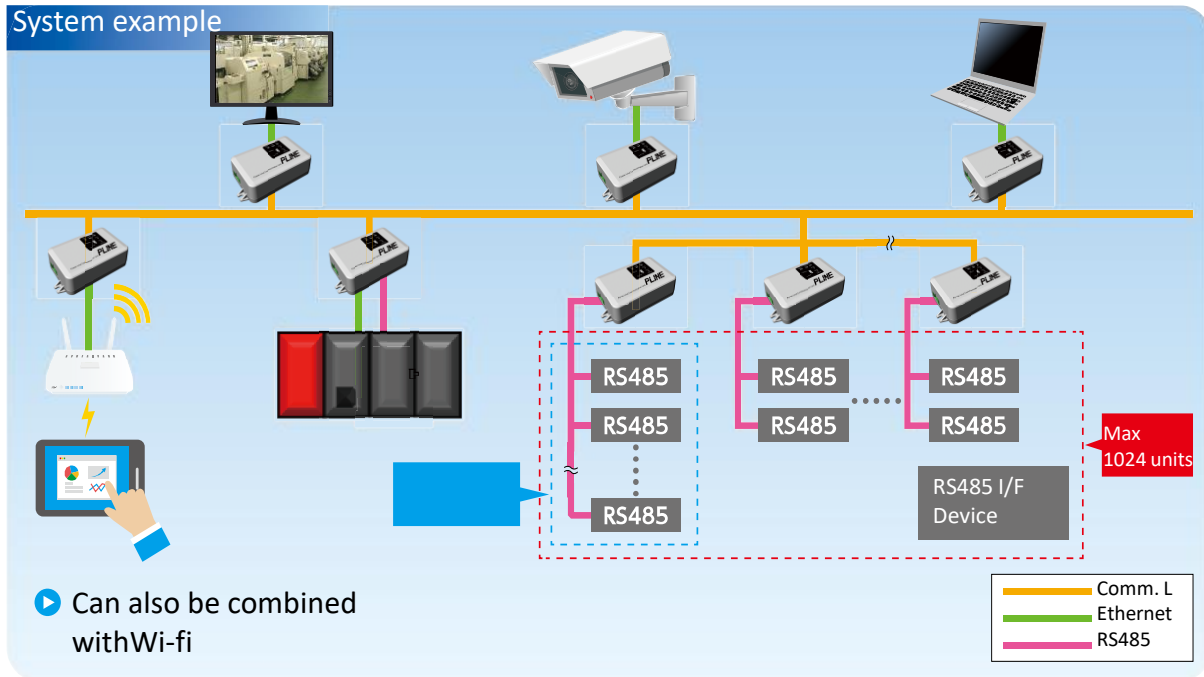
Connection example



Ethernet and RS485 I/F are implemented on one port each, and can communicate simultaneously on the same cable

Example: Camera monitoring with Ethernet, temperature monitoring with RS485, etc.

System example



2 Compatible wires

- Can communicate by only 2 wires
- Spare /Free wires can be used

Wire type	Image diagram	Comm. dist	Wire specifications, etc.
Intercom Cable		1000m	For Intercom 0.65mm 2C Equivalent
Telephone wire		1000m	For telephone 0.4mm 2P equivalent
Parallel double-wire VVF		600m	VVF cable 1.6mm 2P equivalent
Twisted Pair Shield Wire		300m	Knitter Shield 0.75SQ 2C Equivalent
Coaxial cable		2000m	Coaxial cable 5C2V equivalent

Other conductors can also communicate as follows

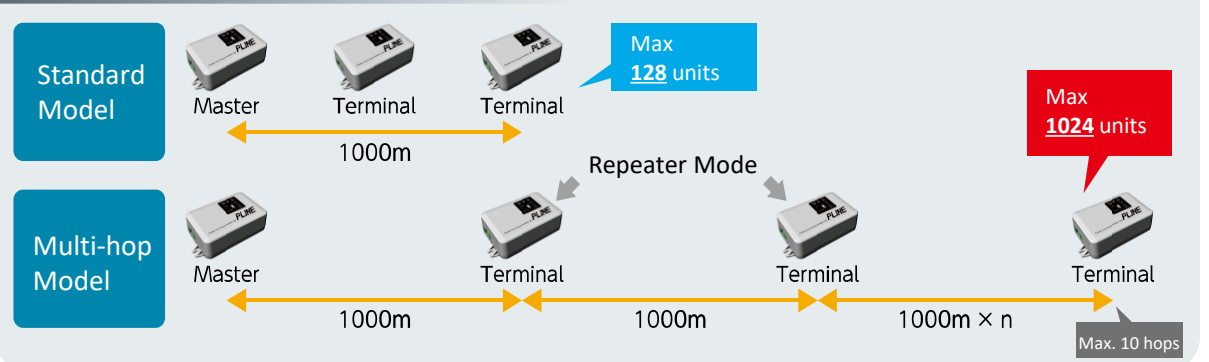
Trolley Wire

Slip Ring

Cable Reel

Ceiling Wire Duct

Multi-hop?? Example of telephone wire



- Communication distance indicates the longest distance (reference value) where the communication speed in the standard product in our measurement environment is 20Mbps or more in UDP
- Multihop will be a multiple distance (up to 10 stages), but the throughput will be slower