

Ethernet Cable Extender MPL80-H-4 long distance 1500m high transmissior speed 45Mbps

Product Profile

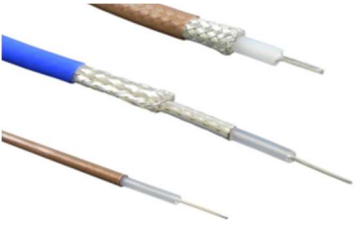


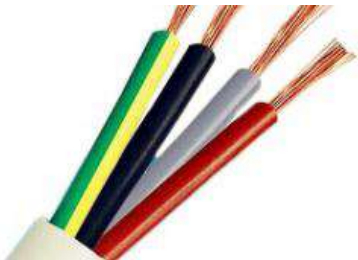

- MPL80-H-4 network extender is a high-speed network transmission equipment. Based on OFDM modulation and demodulation technology, it can be transmitted by any two core wires, such as twisted pair,coaxial cable, power line, etc. The maximum transmission distance can reach 1600 meters (1 mm diameter armored power line), and the maximum physical layer rate can reach 240 Mbps.
- The Ethernet signal and the RS485 signal can be transmitted on a cable at the same time; Power supply, signal common cable transmission, easy construct, cost savings.
- Support point to point and point to multi-point data transmission.Based on ITU-T G.cmsr standard multi-hop technology, can support the maximum 10-level relay, relay delay is less than 10 ms, theoretical maximum distance is 10KM, to meet the needs of long-distance communication.
- The power consumption of the whole machine is less than 2W
- Compliance with EU EN-50561 Standard and Specification

Appearance and Interface



Transmission medium:

MPL80-H-4 can transmit data on copper lines such as coaxial cables,telephone lines, twisted pair lines, shoulder lines, armored cables, power lines, etc..

Type of cable	Transmission distance
 <p data-bbox="651 562 834 595">Coaxial cable</p>	<p data-bbox="935 461 1241 495">2000m@1mm diameter</p>
 <p data-bbox="691 909 906 943">Armoured cable</p>	<p data-bbox="935 775 1241 808">1600m@1mm diameter</p>
 <p data-bbox="738 1144 906 1178">Twisted pair</p>	<p data-bbox="970 1032 1297 1066">1500m@ 0.5mm diameter</p> <p data-bbox="970 1077 1297 1111">1000m@0.4mm diameter</p>
 <p data-bbox="738 1435 882 1469">Power line</p>	<p data-bbox="935 1323 1007 1357">500m</p>
 <p data-bbox="683 1816 866 1850">Shoulder line</p>	<p data-bbox="935 1671 1214 1704">800m@1mm diameter</p>

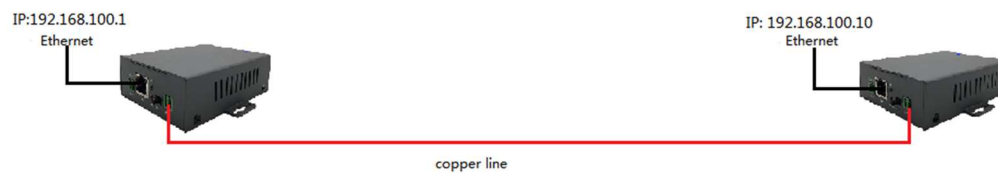


Typical application:

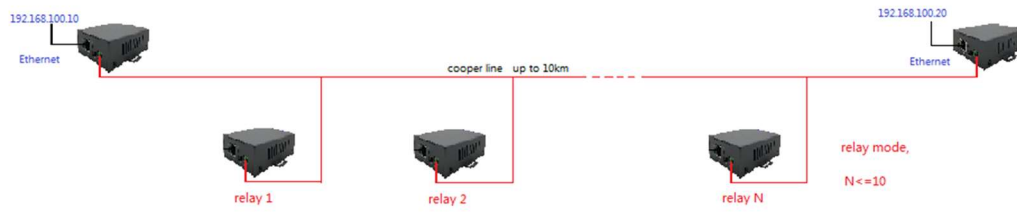
Industrial video surveillance
Elevator swipe control management system
Industrial control

MPL80-H-4 can support point-to-point communication and can also support point to multi-point communication of bus structures.

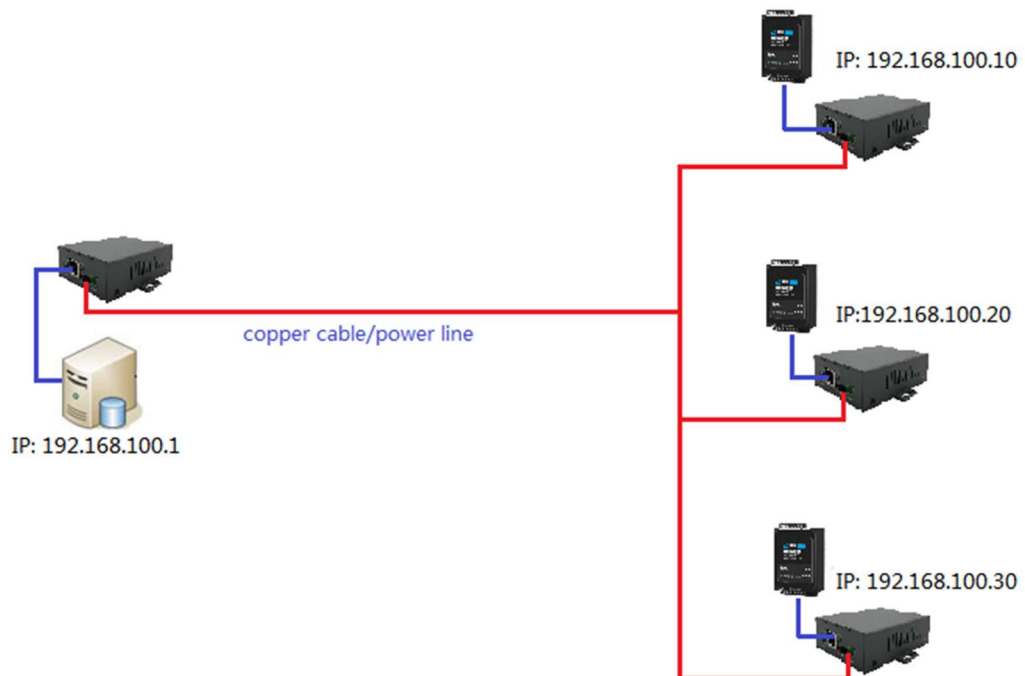
Point to point



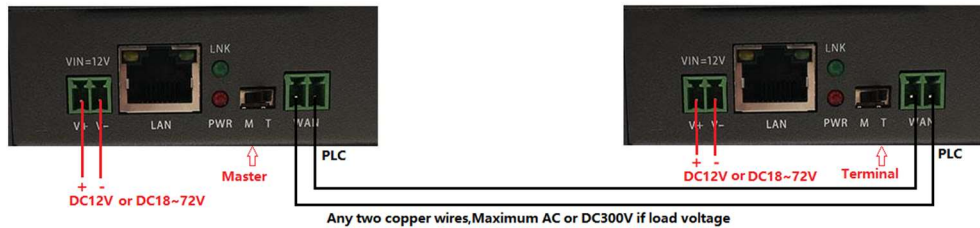
Point to point relay mode



Point to multi-point



MPL80-H-4 Wiring diagram



four-wire Wiring diagram

Electrical Characteristics:

Category	Item	Parameter
Power	input	DC12V or DC18~72V(four-wire)
Transmission	power dissipation	≤2W
	Transmission Medium	Telephone lines, twisted pair lines, shoulder lines, armored cables, power lines, etc..
	Communication distance	up to 1600m
	Bandwidth	up to 45Mbps
	Multicast	Support for IGMP multicast protocol
Connector	Ethernet	10M, 100M Adaptive
	Power in(VIN=12VDC)	Junction seat(Distance 3.81 mm)
	Ethernet (data)	RJ45(1,2 and 3,6)
Indicator Light	Network signal input and output	Junction seat(Distance 3.81 mm)
	PWR	Power indicator. Turn on the power.
	LNK	Signal connection light, when the main slave device signal connection, when the main slave device is not connected
	RJ45 yellow and green light	Network communication indicator light, flashing when communicating

Appearance	Size	100mm(not include master dialing switch) X 74mm(not include Hanging ears) X 26mm
	Color	gray
	Weight	160 g
Environmental Requirements	Operating temperature	-40°C-70°C
	Humidity	0-95%
	Storage temperature	-40°C-85°C

Order Information

P/N: MPL80-H-4

