

IEXT101

Long Reach Ethernet Extender

NEW



- Data transmission up to 800 meters
- Railway EN50121-4, Heavy Industrial EN61000-6-2, EN61000-6-4, CE, and FCC certified
- 4KV surge protection for UTP
- Wide operating temperature range, -40~75°C, for use in harsh environments



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CTC's Industrial Grade Ethernet Extender can extend data beyond the standard 100 meters limitation of standard Ethernet. The paired units work in a point-to-point topology over 1 or 2 pair unshielded twisted pair (UTP) cabling up to 800 meters.

These products are particularly designed for harsh environments, such as industrial networking, traffic surveillance, security automation applications, IP surveillance, city security, intelligent transportation systems (ITS) and are also suitable for many military or utility market applications where environmental conditions exceed commercial product specifications.

Features

- Long distance data transmission up to 800 meter on 1/2 pair UTP cable (see figure 1)
- Quick deployment and easy maintenance

Specifications

Hardware Standard Interfaces	IEEE 802.3	10Base-T
	IEEE 802.3u	100Base-TX
Network Connector	2 pin Terminal Block for power input connector 1 RJ45 for LAN 10/100Base-TX Ethernet port 1 RJ-45 for extension distance and communication data to remote unit	
Dip Switch	SW 1 : Link Fault Pass Through (LFPT)	Off: Disable On: Enable
	SW 2 : Line Speed	Off: Auto On: 10M
LED	Power (Green) LFPT (Amber) LAN Link active (Green) Line Speed/Link active 10M(Amber), 100M(Green)	
Data rate	The line speed between 2 IEXT101 will be 10M or 100M that depend on extension length or set by DIP SW. (Please ref figure 1)	
Cable	1 or 2 pair UTP cable Cat.5e, Cat. 6 (See Table 1 for Transmitting rate by difference length) (Please ref figure 1)	
Operating Temperature	-40°C to 75°C	
Storage Temperature	-40°C to 85°C	
Humidity	10% - 95% (non-condensing)	
Power Supply	12/24/48VDC (9.6~60VDC) Input power (2pin Removable Terminal Block)	
Power Consumption	TBD	
Housing	Rugged Metal, IP30 Protection and fanless	
Dimensions	102.5 x 52 x 25 mm (D x W x H)	
Weight	TBD	
Installation Mounting	Wall Mounting	
MTBF	TBD	

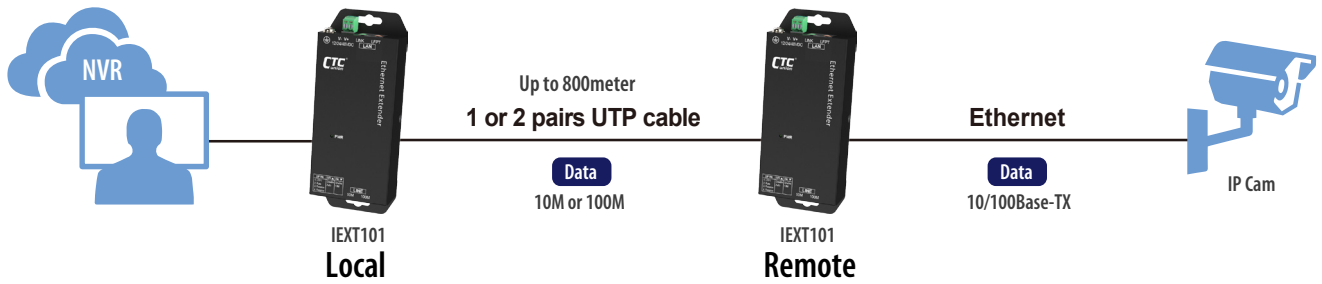
Certification	
EMC	CE (EN55032, EN55035)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A,CE
Railway Traffic	EN50121-4
Immunity for HeavyIndustrial Environment	EN61000-6-2
Emission for HeavyIndustrial Environment	EN61000-6-4
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Safety	EN62368-1 (Pending)
4KV surge protection	Supported for UTP
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Transmitting rate	
Table 1	TBD
Upto 800meter	

10

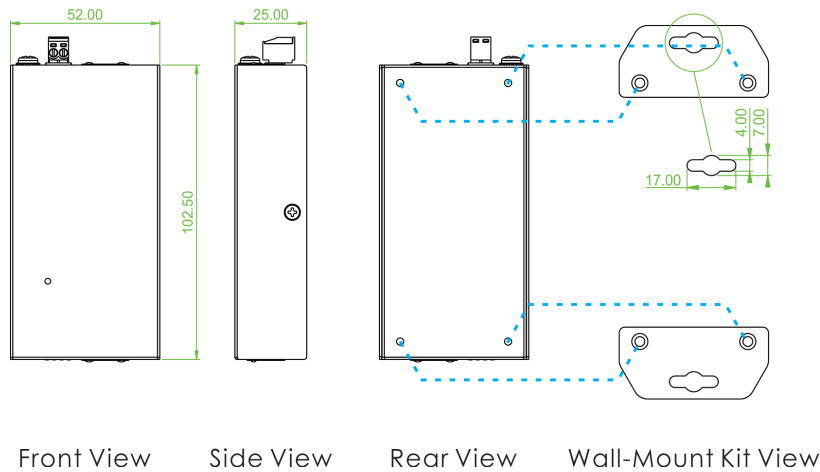
Industrial Ethernet Extender IEXT101

Application

► Long distance data transmission application (Figure1)



Dimensions



Ordering Information

Model Name	Ethernet Port	Line Port (Extension port)	Power input	Certification		
	10/100 Base-TX	10/100M (Upto 800meter)		EN50121-4	EN61000-6-2 EN61000-6-4	CE/FCC
IEXT101	1	1	12/24/48VDC	V	V	V

■ Package List

- 1 IEXT101 device
- 2 pin terminal block
- 2 pcs wall mount bracket and screw

Note: IEXT101 are individually packaged and sold. A complete link requires two IEXT101 units.

Optional Accessories

■ Industrial Power Supply

MDR-20-24 Industrial Power, Input 85~264VAC/120~370VDC, Output 48 VDC, 24W, -20 ~ +70°C

10 Industrial Ethernet Extender IEXT101