# **L4 IEXT101**

- $\gg$  Data Transmission up to 800 meters
- $\gg$  4KV Surge Protection for UTP
- Wide Operating Temperature Range, -40~75°C, for Use in Harsh Environments
- » EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



Industrial-grade Ethernet extenders IEX101 extend Ethernet transmission distance beyond the 100 meter limit of standard Ethernet. Paired devices, local and remote unit, operate in a point-to-point topology over 1- or 2-pair unshielded UTP cables up to 800 meters long. This is an ideal solution to solve long-distance transmission problems and save costs, it is designed for harsh environments and can be used in Industrial networks, traffic monitoring, safety automation applications and urban security, smart transportation systems. It is 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 or 2 pair UTP cable (see figure 1)
- Quick deployment and easy maintenance

Specifications			
Standard	IEEE 802.3 10Base-T		
	IEEE 802.3u 100Base-TX		
Hardware Interfaces	2-pin Terminal Block for power input connector, 1x RJ45 for LAN 10/100Base-TX Ethernet port, 1x RJ-45 for extension distance and communication data to remote unit		
Dip Switch			
	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 ~ 75°C		
Storage Temperature	-40 ~ 85°C		
Humidity	10% - 95% (non-condensing)		
Power Supply	12/24/48VDC (9.6~60VDC) Input power (2pin Removable Terminal Block)		
Power Consumption			
Housing	Rugged Metal, IP30 Protection and fanless		
Dimensions	102.5 x 52 x 25mm (D x W x H)		
Weight	170g		
Installation Mounting MTBF	Wall Mounting		
	2,016,859 Hours (MIL-HDBK-217)		
Certification EMC	CE (EN55032, EN55035)		
EMI (Electromagnetic			
Interference)	FCC Part 15 Subpart B Class A,CE		
Railway Traffic	EN50121-4		
Immunity for Heavy Industrial Environment	EN61000-6-2		
Emission for Heavy Industrial Environment	EN61000-6-4		



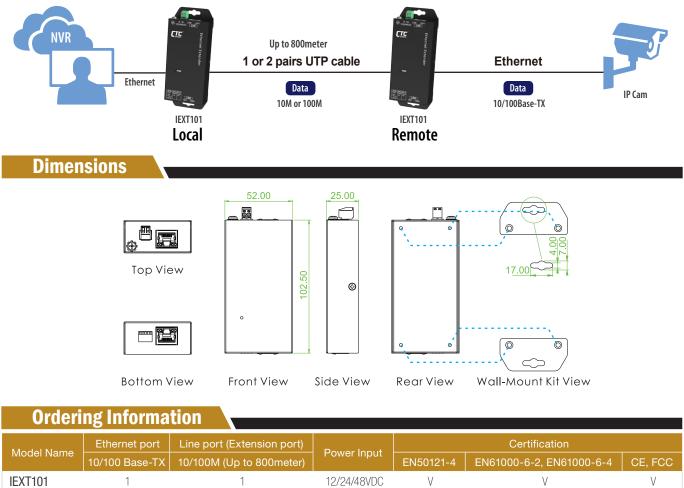
## **Industrial Ethernet Extender**

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 A EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) F	В	
4KV Surge Protection	Supported for UTP		
Shock	IEC 60068-2-27		
Freefall	IEC 60068-2-31		
Vibration	IEC 60068-2-6		
<b>Extension Distance</b>	vs Speed (Table 1)		
Cat5e /Cat6 UTP cable	Extension Distance (Meter)	Link speed (Mbps)	
		2 pairs	1 pairs
	100	100	100
	200	100	100
	300	100	100
	400	100	10
	500	100	10
	600	100	10
	700	10	10
	800	10	10

### **Application**

#### Figure1 : Long distance data transmission application

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Optional Accessories	
Industrial Portion	wer Supply
MDR-20-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ 70°C

12/24/48VDC

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