

# IEXT101

Long Reach Ethernet Extender

NEW



- Long distance 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



Ver.2022 Jan

CTC's Industrial Grade LAN Extender pair (IEXT101) 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

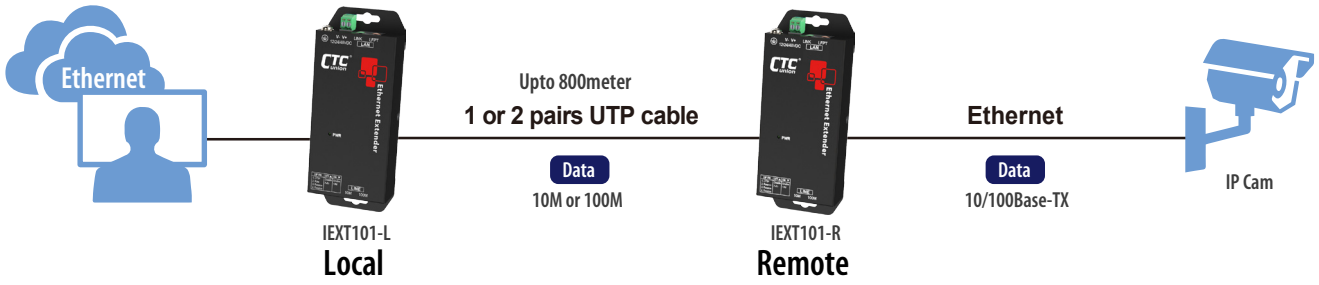
<b>Hardware Standard Interfaces</b>	IEEE 802.3	10Base-T	<b>Power Consumption</b>	TBD
	IEEE 802.3u	100Base-TX		<b>Housing</b>
<b>Network Connector</b>	<b>IEXT101-L (Local unit)</b>		<b>Dimensions</b>	
	2 pin Terminal Block for power input connector			<b>Weight</b>
	1 RJ45 for LAN 10/100Base-TX Ethernet port		<b>Installation Mounting</b>	
1 RJ-45 for extension distance and communication data to remote unit		<b>MTBF</b>		TBD
<b>Dip Switch</b>	<b>IEXT101-R (Remote unit)</b>		<b>Certification</b>	
	2 pin Terminal Block for power input connector		<b>EMC</b>	CE (EN55032, EN55035)
	1 RJ45 for LAN 10/100Base-TX Ethernet			<b>EMI (Electromagnetic Interference)</b>
	1 RJ-45 for long distance communication data from local unit		<b>Railway Traffic</b>	
<b>IEXT101-L (Local unit)</b>		<b>Immunity for HeavyIndustrial Environment</b>		EN61000-6-2
SW 1 : Link Fault Pass Through (LFPT)			Off: Disable	<b>Emission for HeavyIndustrial Environment</b>
On: Enable		On: Enable	<b>EMS (Electromagnetic Susceptibility) Protection Level</b>	
<b>IEXT101-R (Remote unit)</b>		SW 2 : Line Speed		Off: Auto
SW 1 : Link Fault Pass Through (LFPT)			On: 10M	On: Enable
<b>LED</b>	<b>IEXT101-L (Local unit)</b>		<b>Safety</b>	
	Power (Green)		EN62368-1 (Pending)	
	LFPT (Amber)		<b>4KV surge protection</b>	
LAN Link active (Green)		<b>Shock</b>		IEC 60068-2-27
Line Speed/Link active 10M(Amber), 100M(Green)		<b>Freefall</b>		IEC 60068-2-31
<b>IEXT101-R (Remote unit)</b>		<b>Vibration</b>		IEC 60068-2-6
Power (Green)		<b>Transmitting rate</b>		
LFPT (Amber)		<b>Table 1</b>		TBD
LAN Link active (Green)		<b>Upto 800meter</b>		
Line Speed/Link active 10M(Amber), 100M(Green)				
<b>Data rate</b>	The line speed between IEXT101-L and IEXT101-R will be 10M or 100M that depend on extension length or set by DIP SW.			
	The Lan speed of IEXT101-R is same with line speed (extension port). ( Please ref figure 1)			
<b>Cable</b>	1 or 2 pair UTP cable Cat.5e, Cat. 6 (See Table 1 for Transmitting rate by difference length) ( Please ref figure 1)			
<b>Operating Temperature</b>	-40°C to 75°C			
<b>Storage Temperature</b>	-40°C to 85°C			
<b>Humidity</b>	10% - 95% (non-condensing)			
<b>Power Supply</b>	12/24/48VDC (9.6~60VDC) Input power (2pin Removable Terminal Block)			

10

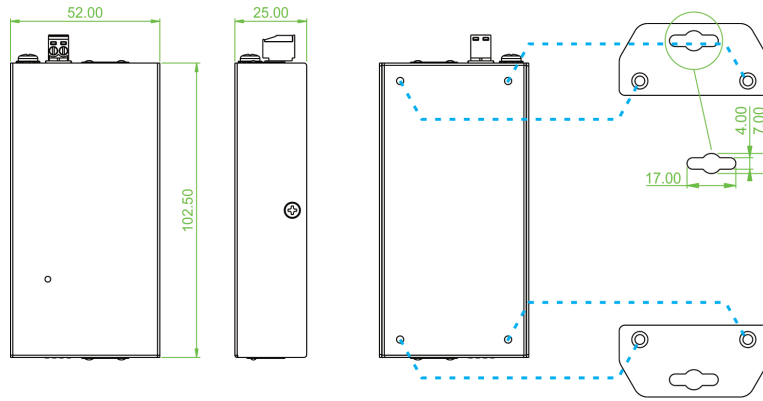
Industrial Ethernet Extender IEXT101

## Application

▶ Remote Power Feeding



## Dimensions



Front View    Side View    Rear View    Wall-Mount Kit View

## Ordering Information

Model Name	Local/ Remote Unit	LAN port (Local unit)	Line Port (Extension port)	Lan Port (Remote unit)	Power input	Certification		
		10/100 Base-TX	10/100M (Upto 800meter)	10/100Base-TX		EN50121-4	EN61000-6-2 EN61000-6-4	CE/FCC
IEXT101	IEXT101-L	1	1		12/24/48VDC	V	V	V
	IEXT101-R		1	1	12/24/48VDC	V	V	V

### ■ Package List

- 1 pair of the device (1 local unit IEXT101-L, and 1 remote unit IEXT101-R)
- 2 pin terminal block

## 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