

Preliminary



IEXT211

10/100Base-TX Ethernet Extenders



This product is intended to extend the reach of 10/100Base-TX Ethernet data beyond its limitations of 100 meters. It is particularly designed for harsh environments, such as industrial networking, traffic surveillance, security automation applications, IP surveillance, city security, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. (See Figure 1 & 2)

Features

- Ethernet over phone wire, extend distance upto 2KM through the phone wire
- Selectable CO or CPE mode
- Selectable Band plan (Symmetric or Asymmetric)
- Comply with ITU-T G.993.2 VDSL2
- Compatible with CTC model VDSL2-1524 & VDSL2-1008 DSLAM
- Display data rate by LED
- 12/24/48VDC (9.6~60VDC) redundant dual input power
- Wide operating temperature -40~75°C
- Rugged metal, IP30 protection & Fanless design
- CE, FCC, Rail Traffic EN50121-4, heavy industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certify

Specifications

Hardware Standard Interfaces	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3x Flow Control ITU-T G.993.2 VDSL2
Port function & Standard	Ethernet port : 1x RJ-45 10/100Base-TX Support Auto negotiation speed, Auto MDI/MDI-X function UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m) Extension port : VDSL2 ITU-T G.993.2 Terminal Block and RJ11 for telephone wire Above 24AWG cable Maximum distance 2KM @24AWG phone line wire
DIP SW	CO or CPE side Symmetric or Asymmetric communication mode (Asymmetric mode is recommended, distance >1KM)
LED	Power 1 & 2 : power status Ethernet LK/Act : Ethernet port Link /Active Extension LK/Act : Extension port Link /Active CO /CPE Sym / Asy Line Speed : 100/80/60/40/20/below 20Mbps
Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 85°C
Humidity	10% - 95% (non-condensing)
Power Supply	Redundant dual 12/24/48VDC (9.6~60VDC) Input power (Removable Terminal Block)
Power Consumption	<5W
Housing	Rugged Metal, IP30 Protection and fanless
Dimensions	106 x 31.6 x 142mm (D x W x H)
Weight	TBD
Installation Mounting	DIN Rail mounting, or Wall Mounting (Optional)
MTBF	TBD
Certification	
EMS	CE
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE

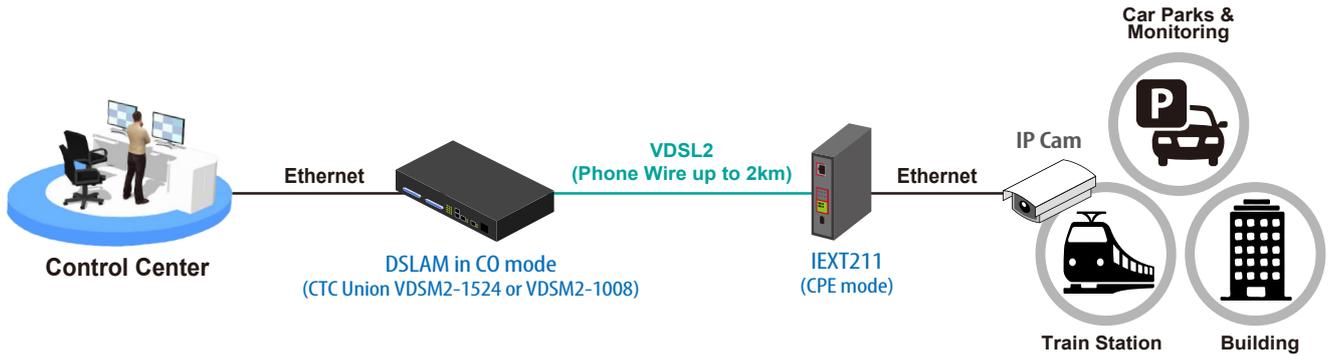
Railway Traffic	EN50121-4
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria 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	UL60950-1 (Pending)
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6

Application

Figure 1 : Distance extend for Ethernet Application



Figure 2 : IEXT211 & VDSL2 DSLAM Application



Ordering Information

Model Name	RJ45 UTP Ethernet	Extension port		Power Input	Certification			Operating Temperature
	10/100Base-TX	Terminal	RH11	Redundant	Railway EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	
IEXT211	1	1	1	12/24/48VDC	V	V	V	-40~75°C

Package List

- One device of the series (one local and one remote unit)
- Quickly installation guide
- Din Rail with screws
- Terminal block

Optional Accessories

Wall Mount kit Accessories

IND-WMK01	Wall Mount kit for Industrial product, 184 x 30mm
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