Industrial 10G Switch:1x10G SFP+ and 1x10G RJ45 PoE+ 802.3bt, without SFP+ module ,without Power supply

Features

- One 10G/5G/2.5G/1G/100M Base-T RJ45 interface with IEEE 802.3bt PoE++ injector function
- One 10GBASE-X SFP+ slot interface
- Complies with IEEE 802.3bt PoE++ Type-4 PSE
- Supports PoE Power up to 90 watts for PoE port
- 44~57V DC redundant power with reverse polarity protection
- Supports DIN-Rail and Wall-Mount installation
- Compact fanless design avoids overheating
- IP40 rugged high-strength metal case
- -40°C to 80°C (-40°F to 176°F) operating Temperature

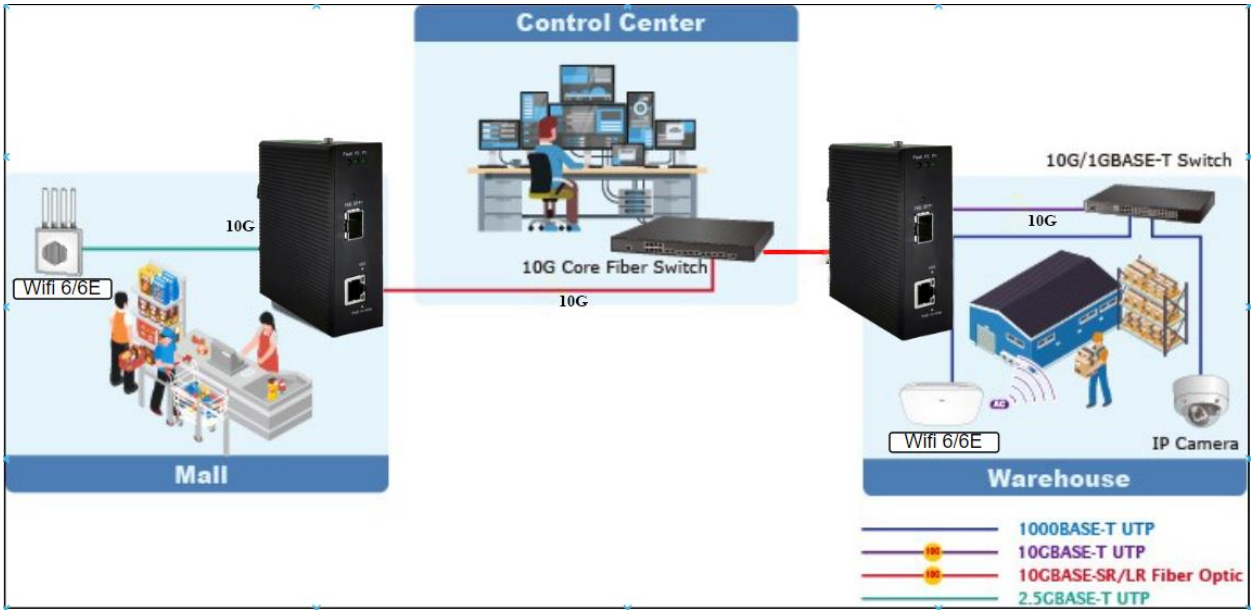
Overview

The HDIS-1XS1XT Media Converter is the smallest industrial-grade 10G Ethernet media converter (from 10000Base-X SFP+ to 10G/5G/2.5G/1G/100M Base-T Copper) with 802.3bt Power over Ethernet Plus Plus (PoE++) injector function to deliver up to 90W of power output and high data transmission speed to PDs (powered devices) installed in a remote area where sufficient and reliable power input is required, providing non-blocking wire-speed performance and great flexibility for 10G Ethernet extension in harsh industrial environment. It is equipped with one 10G/5G/2.5G/1G/100M Base-T RJ45 copper interface and one 10GBase-X SFP+ fiber optic interface delivered in an IP40 rugged but compact sized strong case with redundant power system (44~57VDC).

Customers who are planning for Wi-Fi 6, point-to-point wireless links, and other bandwidth-demanding technologies are looking for connectivity solutions that can grow with them as their technology needs evolve. These customers – universities, commercial buildings, campus environments, stadiums, senior living communities, resorts, and the like – need both 10G speeds and 90W PoE++ (PoE) power output. However, current media converter options in the market are expensive and limited. E-link is solving for more bandwidth and more power at the edge with the industry's first PoE 10G media converter solution.

It is Ideal for wide range of applications from copper to fiber media conversion wherever up-to-10GE bandwidth is required in climatically demanding environments with wide temperature ranges.

Application



Technical Indexes

Ethernet	
Standards:	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab 1000BASE-T
	IEEE 802.3bz 2.5G/5GBASE-T
	IEEE 802.3an 10GBASE-T
	IEEE 802.3ae 10Gbps Ethernet
	IEEE 802.3x full-duplex flow control
	IEEE 802.3az Energy Efficient Ethernet (EEE)
	IEEE 802.3bt 4-pair Power over Etherne
	IEEE 802.3at Power over Ethernet Plus PSE
	IEEE 802.3af Power over Ethernet Plus
Forward & Filtering Rate:	100Mbps
	1000Mbps

	2.5Gbps
	5Gbps
	10Gbps
Network Cables:	**10G/5G/2.5G/1G/100M BASE-T:** 10G – Cat 6A/7 5G – Cat 6/6A/7 1G/2.5G – Cat 5e/6/6A/7 100M – Cat 5/5e/6/6A/7 Cat 5/5e/6/6A/7 UTP cable (100 meters, max.) EIA/TIA-568 100-ohm STP (100 meters, max.) **10GBASE-LR/SR/BX:** 50/125µm or 62.5/125µm multi-mode fiber optic cable, up to 300m 9/125µm single-mode fiber optic cable, up to 80km
Processing Type:	Store-and-Forward
Fabric:	20Gbps
Jumbo Frame:	16K
Address Table:	9K entries, automatic source address learning and aging
Interface	
Connector:	1 x 10GE RJ45
Optical Port:	1 x 10G SFP+
PoE (Power over Ethernet)	
Standard:	IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3bt Power over Ethernet Plus Plus
Port:	RJ45
PoE Power Output:	802.3bt PoE++ : 90W
PoE Power Supply Type:	End-span + mid-span
Power Pin Assignment:	End-span: 1/2 (-), 3/6 (+); mid-span: 4/5 (+), 7/8 (-)
PoE Power Budget:	90 watts@44~57V DC input
Environmental	

Operating Temperature:	-40°C to 80°C (-40°F to 176°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing
MTBF	> 100,000 hrs
Electrical and Mechanical	
Input Power:	44~57VDC (Terminal Block)
Power Consumption:	System ON without loading: 48V DC: 4.36W Full loading with PoE++: 48V DC: 98W
Protection:	
Power Input Overload:	Automatic Resettable
Reverse Polarity:	Present
LED Indicators:	
PWR:	Power Status
L/A:	Link/Activity at Ethernet Port
TP:	Ethernet Status
FX:	SFP+ Fiber Port Status
Dimensions (WxDxH):	95 x 70 x 30 mm
Weight:	0.25Kg
Casing:	Aluminum Case
Mounting Options:	DIN-Rail/Wall-mount
Regulatory Approvals	
ISO9001, CE, RoHS, FCC	
EN55022:2010+AC: 2011, Class A	
EN 61000-3-2: 2006+A1: 2009+A2: 2009	
EN 61000-3-3: 2013	
EN55024:2010	
IEC 61000-4-2: 2008 (ESD)	
IEC 61000-4-3: 2010 (RS)	
IEC 61000-4-4: 2012 (EFT)	
IEC 61000-4-5: 2014 (Surge)	

IEC 61000-4-6: 2013 (CS)
IEC 61000-4-8: 2009 (PFMF)

Ordering Information

Model	**Description**
HDIS-1XS1XT	Industrial 10G Switch:1x10G SFP+ and 1x10G RJ45 PoE+ 802.3bt, without SFP+ module ,without Power supply
SFP Options	► SFP+ option. Please select your SFP+ on our SFP+ Options Page (Industrial SFP).
	► SFP+ module is to be purchased separately.
Mounting Options	► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
Power Options	► Open Wire for Terminal Block
	► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
	► Power Supply is to be purchased separately.