QuickTreX® Industrial Hardened 10 Gigabit SFP+ LC to RJ45 Fiber Optic to Ethernet Media Converter - Singlemode or Multimode Compatible - DIN Rail and Wall Mountable - RoHS Compliant
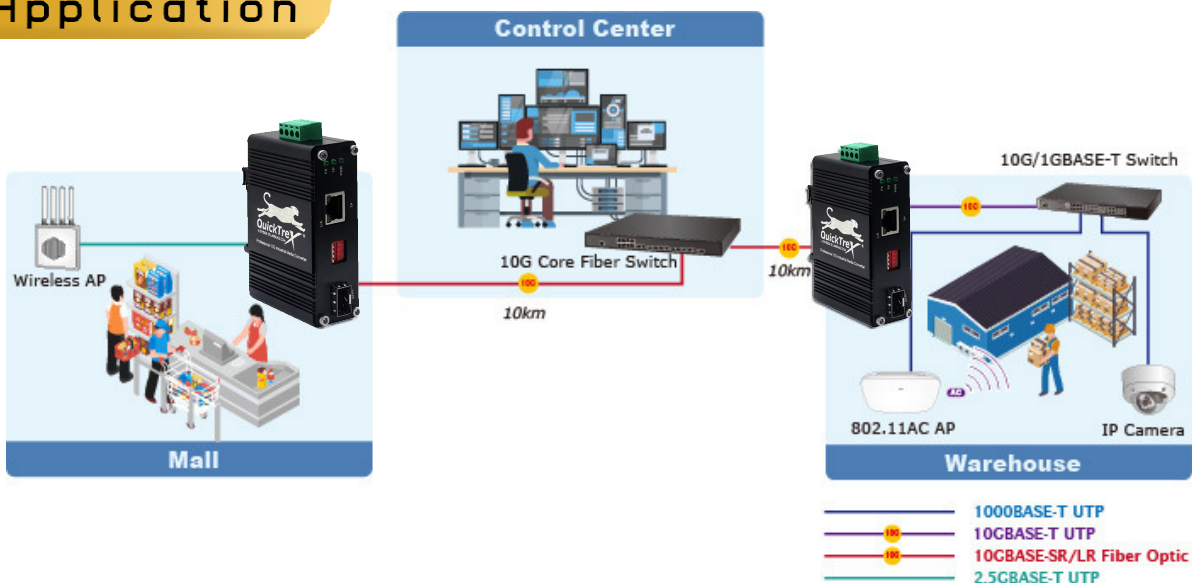
SKU: QT-IND-10G-FOMC-SFP

FEATURES

- ► 100/1G/2.5G/5G/10G BASE-T RJ45 interface with auto MDI/MDI-X function, 10GBASE-X SFP+ slot interface
- ► IEEE 802.3u/802.3ab/802.3bz/802.3ae Ethernet standard compliant
- ► Supports auto-negotiation 100Mbps, 1Gbps half/full duplex and 2.5/5/10Gbps full duplex mode
- ► IEEE 802.3az Energy Efficient Ethernet (EEE) compliant
- ► Extensive LED indicators for network diagnostics
- ► 12~48VDC Terminal Block Power Input
- ► Supports DIN-Rail & Wall-mount installation
- ► Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

OVERVIEW

QT-IND-10G-FOMC-SFP is the smallest Industrial-grade 10G Ethernet Media Converter providing non-blocking wire-speed performance and great flexibility for 10 Gigabit Ethernet extension in harsh industrial environment. It is equipped with one 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10GBASE-T RJ45 copper interface and one 10GBASE-X SFP+ fiber optic interface delivered in an IP40 rugged but compact-sized case with redundant power system. The LNK-IMC10G-SFP+ is ideal for wide applications from copper to fiber media conversion wherever 10Gigabit bandwidth is required in climatically demanding environments with wide temperature ranging from -40 to 80 degrees C.

Application

Technical Information

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)
Forward & Filtering Rate:	100Mbps
	1000Mbps
	2.5Gbps
	5Gbps
	10Gbps

Network Cables:	**10G/5G/2.5G/1G/100M BASE-T:**
	  10G – Cat 6A/7/8
	  5G – Cat 6/6A/7/8
	  1G/2.5G – Cat 5e/6/6A/7/8
	  100M – Cat 5/5e/6/6A/7/8
	  Cat 5/5e/6/6A/7/8 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 RJ45
Optical Port:	1 x SFP+
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	> 200,000 hrs
Electrical and Mechanical	
Input Power:	12~48VDC, Redundant Power (4-pin Terminal Block)
Power Consumption:	5W Max
Protection:	
Power Input Overload:	Automatic Resettable

Reverse Polarity:	Present			
DIP Switch				

4-digit DIP switch function	DIP	Function	Settings	
	SW 1	Reserved	ON - Reserved	OFF - Reserved
	SW 2	Reserved	ON - Reserved	OFF - Reserved
	SW 3	Reserved	ON - Reserved	OFF - Reserved
	SW 4	Reserved	ON - Reserved	OFF - Reserved

Note: DIP Switch's function can be customized based on specific requirements.

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
QT-IND-10G-FOMC-SFP	Mini Industrial 10G/5G/2.5G/1G/100M Copper to 10GBASE-X SFP+ Media Converter
SFP Options	► SFP+ option. Please select your SFP+ on our SFP+ Dropdown (Industrial SFP).
	► SFP+ module is to be purchased separately.
Mounting Options	► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
Power Options	► 24W/1A 24VDC Power Supply. Open Wire for Terminal Block
	► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
	► Power Supply is to be purchased separately.