



BT321PG1F-SM-20KM

1-Port Gigabit PoE media converter

Datasheet



Key Features:

- --- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab/z 1000BASE-T, IEEE802.3af/at
- --- TP port supports 10/100/1000BASE-T auto-negotiation and auto-MDI/MDI-X
- --- 1000BASE-T: 5e/6 UTP cable, up to 100 meters
- --- Wall Mountable design
- --- LED indicators for easy network diagnostics
- --- Compact in size, easy installation

Introduction

This BT321PG1F-SM-20KM PoE gigabit media converter extends network distance with highly Gigabit performance via fiber optic cable. It provides media conversion between 10/100/1000BASE-T and 1000BASE-SX/LX interfaces. There are SC/SFP/WDM connectors with single-mode or multi-mode media for different distance solution as required. The Ethernet signal allows three types of segments to connect easily, efficiently and inexpensively. As this Gigabit Media Converter fully complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T and IEEE 802.3z 1000BASE-LX/SX, the Gigabit media conversion installation is quite quick and easy with its plug and play feature. The BT321PG1F-SM-20KM also supports flow control and back pressure in half-duplex to eliminate packet loss.

The fiber port of the converter operates at 1310 /1550nm with SC connectors. Multi-mode models that support distances up to 550m and single-mode models that support distances up to 100km more are available which it can save more installation.

Easy Installation

This BT321PG1F-SM-20KM is with PoE features supported and can power the networking products without any power cables. It provides Maximun power budget of 45W and 30W for single PoE ports sepectively, allowing users to have several different Networking products configured. As the Gigabit Media Converter fully complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T and IEEE 802.3z 1000BASE-LX/SX, the Gigabit media conversion installation is quite quick and easy with its plug and play feature. The fiber converter also supports flow control and back pressure in half-duplex mode to eliminate packet loss.

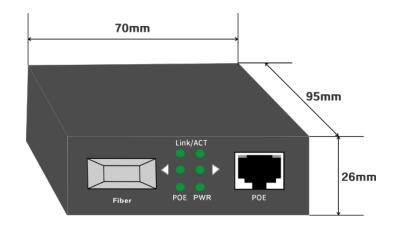
BT321PG1F-SM-20KM

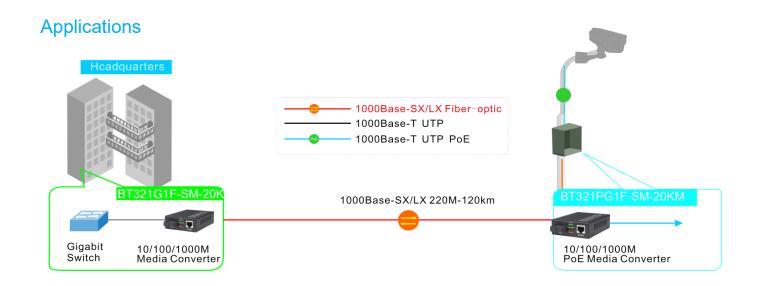
10/100/1000Mbps PoE Fiber Media Converter

Technical Datasheet

1*1000 Base-X SC Processing types Store and forward Power Indicator: PWR(green). LED Display Network Indicator: Link(green). Fiber: Green Thermal Fan Fanless Design IEEE802.3u 100 BASE-T IEEE802.3u 100 BASE-TX. IEEE802.3u/ 1000 BASE-TX. IEEE802.3a/Power over Ethernet IEEE802.3a/Power over Ethernet IEEE802.3a Flow Control IEEE802.3a Flower over Ethernet Plus/PSE PoE Standard IEEE 802.3a Power over Ethernet Plus/PSE PoE Power Output Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3a+///// Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3a+////// Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3a+////////////////////////////////////	Model	BT321PG1F-SM-20KM	
Connector1+1000 Base-X SCProcessing typesStore and forwardPower Indicator: PWR(green), Power Indicator: Link(green), Fiber: Green	Hardware Specifications		
Power Indicator: PWR(green).LED DisplayNetwork Indicator: Link(green) Fiber: GreenThermal FanFanless DesignIEEE802.3i 10 BASE-T IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3ab/z 1000 BASE-TXNetwork StandardIEEE802.3a Power over Ethernet IEEE802.3a Flow Control IEEE802.3a z EEEPoE StandardIEEE 802.3af Power over Ethernet Plus/PSE IEEE 802.3at Power over Ethernet Plus/PSEPoE Standard12(+), 3/6(-) End-spanPoE Power OutputPer Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3at / Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. max. 30 watts (IEEE 802.3at / Per Port 52V DC, 300mA. Per Port 52V DC, 300mA. <b< td=""><td>Connector</td><td colspan="2"></td></b<>	Connector		
LED Display Network Indicator: Link(green) Fiber: Green Thermal Fan Fanless Design IEEE802.3i 10 BASE-T IEEE802.3i 10 BASE-TX IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3af Power over Ethernet IEEE802.3af Power over Ethernet IEEE802.3ar Flow Control IEEE802.3az Flow Control IEEE802.3az Flow Control IEEE802.3az Power over EthernetPlus/PSE PoE Standard PoE Power Output PoE Power Output PoE Power Dutput PoE Power Dutput PoE Power budget PoE Power budget Frame PoE Power budget Frame PoE Power Dutput PoE Power	Processing types	Store and forward	
IEEE802.3i 100 BASE-TX IEEE802.3u 100 BASE-TX IEEE802.3u/ 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3af Power over Ethernet IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet IEEE802.3az EEE PoE Standard PoE Standard PoE Supply Type 1/2(+), 3/6(-) End-span PoE Power Output PoE Power Output PoE Power Dutput PoE Power Dutput PoE Power budget 45W Jumbo Frame SK Transmission model IEEE802.3X full-duplex and Backpressure half-duplex IEEE802.3X full-duplex and Backpressure half-duplex 10Gbps	LED Display	Network Indicator: Link(green)	
IEE802.3u 100 BASE-TXIEE802.3ab/z 1000 BASE-TXIEE802.3ab/z 1000 BASE-TXIEE802.3af Power over EthernetIEE802.3af Power over EthernetIEE802.3ar Power over EthernetIEE802.3ar Flow ControlIEE802.3ar EEEPoE Standard12100 FormerPoPerore Dudpet900 Former901 Former902 Former902 Former903 Former904 Former905 Former <td< td=""><td>Thermal Fan</td><td colspan="2">Fanless Design</td></td<>	Thermal Fan	Fanless Design	
PoE Standard IEEE 802.3at Power over Ethernet Plus/PSE PoE Supply Type 1/2(+), 3/6(-) End-span PoE Power Output Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3at) PoE Power Output Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at) PoE Power budget 45W Jumbo Frame 9K Transmission model IEEE802.3X full-duplex and Backpressure half-duplex Backplane bandwidth 10Gbps	Network Standard	IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet IEEE802.3x Flow Control	
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PoE Power Output Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at) PoE Power budget 45W Jumbo Frame 9K Transmission model IEEE802.3X full-duplex and Backpressure half-duplex Backplane bandwidth 10Gbps	PoE Supply Type	1/2(+), 3/6(-) End-span	
Jumbo Frame 9K Transmission model IEEE802.3X full-duplex and Backpressure half-duplex Backplane bandwidth 10Gbps	PoE Power Output		
Transmission model IEEE802.3X full-duplex and Backpressure half-duplex Backplane bandwidth 10Gbps	PoE Power budget	45W	
Backplane bandwidth 10Gbps	Jumbo Frame	9K	
	Transmission model	IEEE802.3X full-duplex and Backpressure half-duplex	
Switch Performance Packet forwarding rate 2.98Mpps	Switch Performance	Backplane bandwidth	10Gbps
		Packet forwarding rate	2.98Mpps
MAC address 4k		MAC address	4k
Power requirement DC 48~52V	Power requirement	DC 48~52V	
ESD Protection 6KV ESD	ESD Protection	6KV ESD	
Dimension (W x D x H) 70 x 90 x 26mm(2.76in*3.54in*1.02in)	Dimension (W x D x H)	70 x 90 x 26mm(2.76in*3.54in*1.02in)	
Weight <0.3kg	Weight	<0.3kg	
Environment Operating temperature: -20°C~55°C,operating humidity: 5%~95% Storage temperature: -40°C~75°C,storage humidity: 5%~95%	Environment		
Safety FCC Part15 Class A,CE.RoHs	Safety	FCC Part15 Class A,CE.RoHs	

Interfaces and Structure Diagrams





Ordering Information	
BT321PG1F-SM-20KM 1ch 10/100/1000BASE-T to 100/1000BASE-X PoE Fiber Converter.SC Connector	



BT321G1F-SM-20K Gigabit PoE Fiber Media Converter