

JTFA101-B53S20-P

1x 10/100Base-TX to 1x 100Base-FX (TX1550/RX1310nm SMF 20km Single SC) Unmanaged Fast Ethernet PoE Industrial Media Converter



FEATURES & BENEFITS

- Complies with IEEE 802.3 ,IEEE 802.3u ,IEEE 802.3x ,IEEE 802.3af/at PoE
- 1x 10/100Base-TX with IEEE 802.3af/at PoE
- 1x 100Base-FX
- Auto-negotiation of Half-Duplex / Full-Duplex transfer mode
- Redundant Power Design
- Power Polarity Reverse Protection
- Overload Current Protection
- Extends fiber distance up to 20km
- Operating Case Temperature : -40~75
- DIN-Rail or Wall Mountable
- IP30 Corrosion resistant aluminum case

Application

- Network Communication
- FTTH/FTTB/FTTx
- ISP Backhaul Networking

OVERVIEW

JTFA101-B53S20-P is an unmanaged industrial media converter with 1x 10/100Base-TX and 1x 100Base-FX interfaces that provides reliable and cost-effective network connectivity and fiber extension in harsh industrial environments. It is specifically designed to fulfill industrial applications such as industrial automation, security, power/utility, oil and gas, mining and outdoor environment.

SPECIFICATIONS

Data Rate	10/100Mbps
Device Type	Unmanaged
Form Factor	PoE

Interface Characteristics

Copper Interface	1x 10/100Base-TX (IEEE 802.3af/at PoE)
Fiber Interface	1x 100Base-FX
Wavelength	TX1550/RX1310nm
Media	SMF
Distance	20km
Connector	Single SC
LED indicators	PWR (power supply); FL/A (optical link/action) FDX (FX full duplex), TL/A (twisted pairs link/action) 100 (100M transmission rate of twisted pairs), FX (100M transmission rate of optical fiber)

Technology

Standards and Protocols	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Full duplex and flow control IEEE 802.3af/at PoE
Processing Type	Store and Forward

Flow Control	Half-duplex back-pressure-and IEEE 802.3x full-duplex flow control
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Power

Power Input	DC 12~52V
PoE Standard	IEEE 802.3af/at PoE
PoE Power Budget	30W Per PoE Port
Power Consumption	<4W
Protection	Overload current protection Reverse polarity protection

Switch Properties

Switching Capacity	0.4G
Forwarding Rate	0.1488Mbps
MAC address table	2K
Packet Buffer	256K
Jumbo Frame	9K
Delay	<3μs

Physical

Casing Mat.	Aluminum, IP30
Dimensions	118 x 86 x 39mm
Installation	DIN-Rail
Environmental	Operating temperature : -10~55°C Storage Temperature: -40~85°C Relative Humidity: 5% to 95% non-condensing

Regulatory

ISO	Manufactured in ISO-9001 facility
Safety & Emission	CE, FCC, RoHS
EMI	FCC Part 15B Class A EN 61000-6-4 EN 61000-3-2 EN 61000-3-3
EMS	EN 61000-6-2 EN 61000-4-2 (ESD Standards) EN 61000-4-3 (Radiated RFI Standards) EN 61000-4-4 (Burst Standards) EN 61000-4-5 (Surge Standards) EN 61000-4-6 (Induced RFI Standards) EN 61000-4-8 (Magnetic Field Standards)

	fall w/package)
Stability Reliability	IEC 60068-2-6 Fc (Vibration) IEC 60068-2-27 Ea (Shock) IEC 60068-2-32 Ed (Free
MTBF	>50,000Hrs

Mechanical Dimensions

118 x 86 x 39mm(LxWxH)

