

JTGA101-13S20

1x 10/100/1000Base-TX to 1x 1000Base-FX (1310nm SMF 20km Dual SC) Unmanaged Gigabit Ethernet Industrial Media Converter



FEATURES & BENEFITS

- Complies with IEEE 802.3 ,IEEE 802.3u ,IEEE 802.3ab ,IEEE 802.3z 1000BASE-X Gigabit FiberIEEE 802.3x
- 1x 10/100/1000Base-TX
- 1x 1000Base-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

JTGA101-13S20 is an unmanaged industrial media converter with 1x 10/100/1000Base-TX and 1x 1000Base-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	10/100/1000Mbps
Device Type	Unmanaged>
Form Factor	/

Interface Characteristics

Copper Interface	1x 10/100/1000Base-TX
Fiber Interface	1x 1000Base-FX
Wavelength	1310nm
Media	SMF
Distance	20km
Connector	Dual 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) 1000 (100M transmission rate of twisted pairs)

Technology

Standards and Protocols	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X Gigabit Fiber IEEE 802.3x Full duplex and flow control
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Processing Type	Store and Forward
Flow Control	Half-duplex back-pressure-and IEEE 802.3x full-duplex flow control

Power

Power Input	DC 12~52V
PoE Standard	/
PoE Power Budget	/
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: -40~75°C Relative Humidity: 5% to 96% 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)

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

Mechanical Dimensions

118 x 86 x 39mm(LxWxH)

