

JTGA101-B53S40-P

1x 10/100/1000Base-TX to 1x 1000Base-FX (TX1550/RX1310nm SMF 40km Single SC) Unmanaged Gigabit Ethernet PoE 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 ,IEEE 802.3af/at PoE
- 1x 10/100/1000Base-TX with IEEE 802.3af/at PoE
- 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 40km
- 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-B53S40-P 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

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|-------------|-----------------|
| Data Rate | 10/100/1000Mbps |
| Device Type | Unmanaged> |
| Form Factor | PoE |

Interface Characteristics

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|------------------|---|
| Copper Interface | 1x 10/100/1000Base-TX (IEEE 802.3af/at PoE) |
| Fiber Interface | 1x 1000Base-FX |
| Wavelength | TX1550/RX1310nm |
| Media | SMF |
| Distance | 40km |
| 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), 1000 (100M transmission rate of twisted pairs) |

Technology

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|--------------------------|--|
| | IEEE 802.3af/at PoE |
| Standards/Type/Protocols | IEEE 802.3 Ethernet IEEE 802.3ab 100BASE-T IEEE 802.3z 100BASE-X IEEE 802.3x Full duplex and flow control |
| Flow Control | IEEE 802.3x full-duplex flow control |
| Power | IEEE 802.3ab 100BASE-T |
| Power Input | IEEE 802.3z 100BASE-X Gigabit Fiber DC 12~52V |
| PoE Standard | IEEE 802.3x Full duplex and flow control IEEE 802.3af/at PoE |
| PoE Power Budget | 30W Per PoE Port |
| Power Consumption | <4W |
| Protection | Overload current protection Reverse polarity protection |

Switch Properties

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

Physical

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|---------------|---|
| 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 101% non-condensing |

Regulatory

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|-------------------|--|
| 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 |
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| Stability | EN 61000-4-8 (Magnetic Field Standards) IEC 60068-2-27 Fc (Vibration) IEC 60068-2-27 Ea (Shock) IEC 60068-2-32 Ed (Free fall) IEC 61000-4-2 (ESD Standards) |
| Reliability | EN 61000-4-3 (Radiated RFI Standards) |
| MTBF | EN 61000-4-4 (Burst Standards) >50,000Hrs EN 61000-4-5 (Surge Standards) |
| | EN 61000-4-6 (Induced RFI Standards) |

Mechanical Dimensions

118 x 86 x 39mm(LxWxH)

