

JGA101-13S20

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



FEATURES & BENEFITS

- Complies with IEEE 802.3 ,IEEE 802.3u ,IEEE 802.3ab ,IEEE 802.3z ,IEEE 802.3x
- 1x 1x 10/100/1000Base-TX
- 1x 1x 1000Base-FX
- Auto-negotiation of Half-Duplex / Full-Duplex transfer mode
- 5V DC universal power supply
- Extends fiber distance up to 20km
- Operating Case Temperature : 0~50

Application

- Network Communication

- FTTH/FTTB/FTTx
- ISP Backhaul Networking

OVERVIEW

JGA101-13S20 provides a cost effective conversion from 1x 10/100/1000Base-TX to 1x 1000Base-FX interfaces to overcome the 100 meter distance limitations of copper cables in traditional networks . It allows the installation of fiber cabling anywhere with a Ethernet network topology by directly connecting to existing devices. Its compact design makes deployment quick and easy in a narrow desktop location to save space.

SPECIFICATIONS

Data Rate	10/100/1000Mbps
Device Type	Unmanaged
Form Factor	Stand-alone

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-SX/1000BASE-LX IEEE 802.3x Full duplex and flow control
Processing Type	Store and Forward
Flow Control	Half-duplex back-pressure and IEEE 802.3x full-duplex flow control

Power

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Power Input	DC 5V
Power Consumption	$\leq 3W$

Switch Properties

Delay	$<20\mu s</math>$
Buffer space	128K
MAC address table	8K

Physical

Casing Mat.	Cold Rolled Steel
Dimensions	External: 94mm x 70mm x 26mm Internal: 140mm x 110mm x 30mm
Installation	Standalone or Rack mount
Environmental	Operating temperature : -10~55°C Storage Temperature: -40~70°C Relative Humidity: 5% to 96% non-condensing

Regulatory

ISO	Manufactured in ISO-9001 facility
Safety & Emission	CE , FCC, RoHS

Reliability

MTBF	50,000Hrs
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Mechanical Dimensions

140mm x 110mm x 30mm(LxWxH)

