

# JGA101-15S80

1x 10/100/1000Base-TX to 1x 1000Base-FX (1550nm SMF 80km 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 10/100/1000Base-TX
- 1x 1000Base-FX
- Auto-negotiation of Half-Duplex / Full-Duplex transfer mode
- 5V DC universal power supply
- Extends fiber distance up to 80km
- Operating Case Temperature : 0~50

## Application

- Network Communication

- FTTH/FTTB/FTTx
- ISP Backhaul Networking

## OVERVIEW

JGA101-15S80 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       | 1550nm   |
| Media            | SMF  |
| Distance         | 80km   |
| Connector        | Dual SC  |
| LED indicators   | PWR (power supply);<br>FL/A (optical link/action)<br>FDX (FX full duplex),<br>TL/A (twisted pairs link/action)<br>100 (100M transmission rate of twisted pairs),<br>1000 (100M transmission rate of twisted pairs) |

### Technology

|                         |   |
|-------------------------|---|
| Standards and Protocols | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3z 1000BASE-SX/1000BASE-LX<br>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

|  |  |
|--|--|
|  |  |
|--|--|

|                   |       |
|-------------------|-------|
| Power Input       | DC 5V |
| Power Consumption | <3W   |

#### Switch Properties

|                   |             |
|-------------------|-------------|
| Delay             | <20 $\mu$ s |
| Buffer space      | 128K        |
| MAC address table | 8K          |

#### Physical

|               |  |
|---------------|--|
| Casing Mat.   | Cold Rolled Steel  |
| Dimensions    | External: 94mm x 70mm x 26mm<br>Internal: 140mm x 110mm x 30mm   |
| Installation  | Standalone or Rack mount   |
| Environmental | Operating temperature : -10~55°C<br>Storage Temperature: -40~70°C<br>Relative Humidity: 5% to 97% non-condensing |

#### Regulatory

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

#### Reliability

|      |           |
|------|-----------|
| MTBF | 50,000Hrs |
|------|-----------|

## Mechanical Dimensions

140mm x 110mm x 30mm(LxWxH)

