

# JTFA104-13S20-P

4x 10/100Base-TX to 1x 100Base-FX (1310nm SMF 20km Dual SC)  
Unmanaged Fast Ethernet PoE Industrial Switch



## FEATURES & BENEFITS

- Complies with IEEE 802.3 ,IEEE 802.3u ,IEEE 802.3x ,IEEE 802.3af/at PoE
- 4x 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

JTFA104-13S20-P is an unmanaged Fast Ethernet is equipped with 4x 10/100Base-TX (IEEE 802.3af/at PoE) and 1x 100Base-FX interfaces that provides reliable and cost-effective network connectivity and fiber extension in harsh industrial environments, It is specifically designed supporting up to 30 Watts PoE per port 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

### Interface Characteristics

Copper Interface	4x 10/100Base-TX (IEEE 802.3af/at PoE)
Fiber Interface	1x 100Base-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), 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

## 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	1G
Forwarding Rate	0.1488Mbps
MAC address table	1K
Packet Buffer	448K
Jumbo Frame	1552/1536/bytes
Delay	<3 $\mu$ s

## Physical

Casing Mat.	Aluminum, IP30
Dimensions	143 x 101 x 44mm
Installation	DIN-Rail
Environmental	Operating temperature : -40~75°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)
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
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### Mechanical Dimensions

143 x 101 x 44mm(LxWxH)

