

Product Datasheet

4-Port Full Gigabit Industrial Ethernet Switch

(IND-D-U-FG-0202-N)



OVERVIEW

The IND-D-U-FG-0202-N is a full gigabit industrial Ethernet fiber switch. It is designed to meet industrial fields and systems. It has 2*10/100/1000Base-T RJ45 ports and 2*1000Base-X SFP fiber slot ports. Each port can support full line-rate forwarding.

IND-D-U-FG-0202-N industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP40, support for dual redundant power supply, low power consumption and fanless cooling technology, MTBF average trouble-free working time up to 35 years, 5-year warranty, unmanaged models, plug and play, no configuration, easy to use. It is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network.

FEATURE

✓ Gigabit wire-speed access, Gigabit uplink SFP Fiber port

- ◇ A combination of Gigabit Ethernet port and Gigabit SFP port to meet the networking requirements of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

✓ Stable and reliable

- ◇ Low power consumption, no fan, aluminum shell.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link.

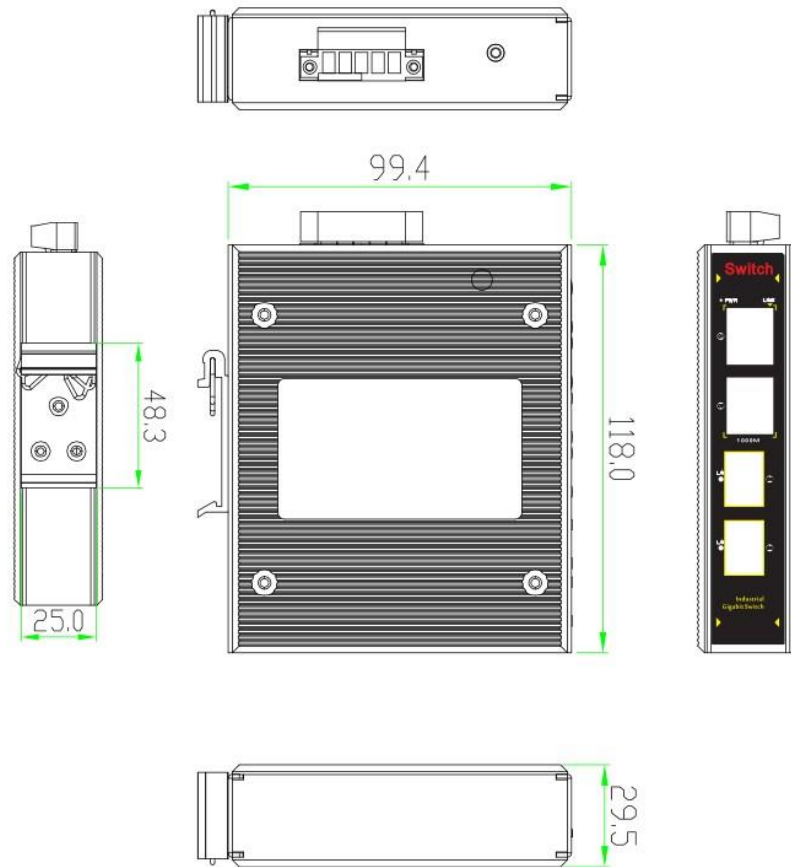
TECHNICAL SPECIFICATION

Model	IND-D-U-FG-0202-N
Interface Characteristics	
Fixed Port	2*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 groups V+, V- redundant DC power interface (5P phoenix terminal)
Ethernet Port	10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)

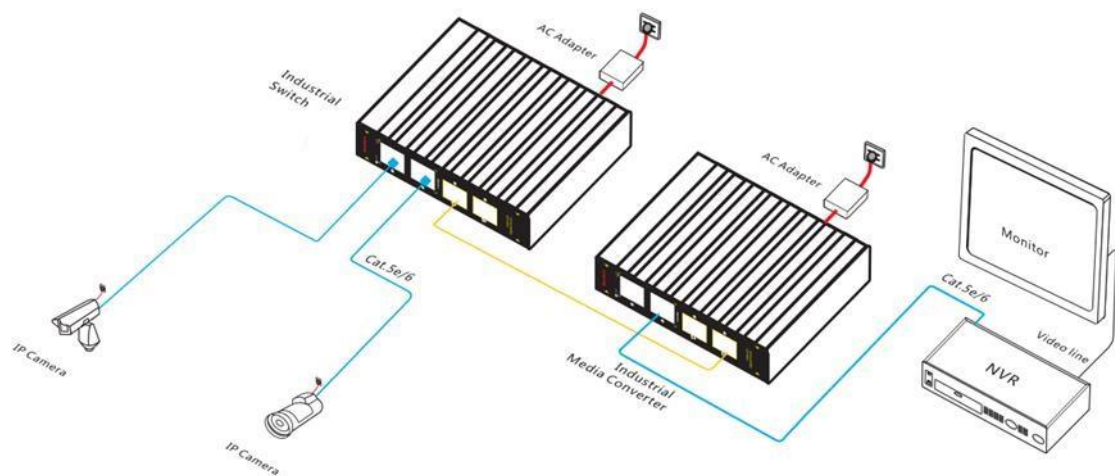
SC Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber
	optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/0 - 550M, single-mode: 1310nm/0 - 40KM, 1550nm/ 0- 120KM.
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	8Gbps
Forwarding Rate@64byte	5.95Mpps
MAC	8K
Buffer Memory	1M
Jumbo Frame	10K
LED Indicator	Power:PWR (green), Network: Link, Link/Act (yellow),
Power	
Power Consumption	Standby<5W, Full load<7W
Power Supply	No, optional 24V/24W industrial power supply
Working Voltage	12-48VDC, 5P industrial Phoenix terminal, support anti-reverse protection.
Physical Parameter	
Operation TEMP / Humidity	-40~+80°C, 5%~90% RH Non condensing

Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension (L*W*H)	119*100*30mm
Net /Gross Weight	<0.5kg / <0.7kg
Installation	Desktop, DIN-rail
Certification & Warranty	
Lightning protection / protection level	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CCC;CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
IND-D-U-FG-020 2-N	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP fiber slot ports, Support DC redundant power supply input and DIN rail mounting.	24/24W
Note: Industrial Ethernet switch does not match the power supply and SFP optical module.		

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	4-port full gigabit industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC

	2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2613-R-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-SC	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	2613-R-SC	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	DP24-24	Din Rail type 24W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,0.35A Output Voltage:DC 24V 0.5A Operation Temperature:-40°C—+70°C	PC

RELATED PRODUCT

Model	Description
IND-D-U-FG-0501-N	Unmanaged industrial Ethernet fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP slot port. It can support dual DC redundant power input and DIN rail mounting.
IND-D-U-FG-0402-N	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
IND-D-U-FG-0600-N	Unmanaged industrial Ethernet switch with 6*10/100/1000M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.
IND-D-U-FG-1000-N	Unmanaged industrial Ethernet switch with 10*10/100/1000M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.
IND-D-U-FG-0802-N	Unmanaged industrial Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
IND-D-U-FG-1000-N	Unmanaged industrial Ethernet fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.



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