

Product Datasheet

12-port Gigabit Uplink Industrial Ethernet Fiber Switch

(IND-D-U-EG-1002-N)



OVERVIEW

The IND-D-U-EG-1002-N is a gigabit uplink industrial Ethernet fiber switch. It has 8*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 2*1000M SFP ports, and each port can support full line-rate forwarding.

The IND-D-U-EG-1002-N industrial Ethernet switch has excellent industrial field environment adaptability (mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). Protection level is IP40, it support for dual power supply, low power consumption, No fan. MTBF is 35 years, 5 years warranty, unmanaged models, plug and play, no configuration, easy to use. It is suitable for industrial scenes such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping, metallurgy and green energy construction to form a cost-effective, stable and reliable communication network.

FEATURE

■ 10/100M access, gigabit TP&SFP port uplink

- ◇ Support 10/100M RJ45 port and gigabit TP&SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV, port lightning protection common-mode 4KV, differential mode 2KV
- ◇ Industrial dual power input.
- ◇ DC INPUT: 12-57V.

■ Stable and reliable

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

TECHNICAL SPECIFICATION

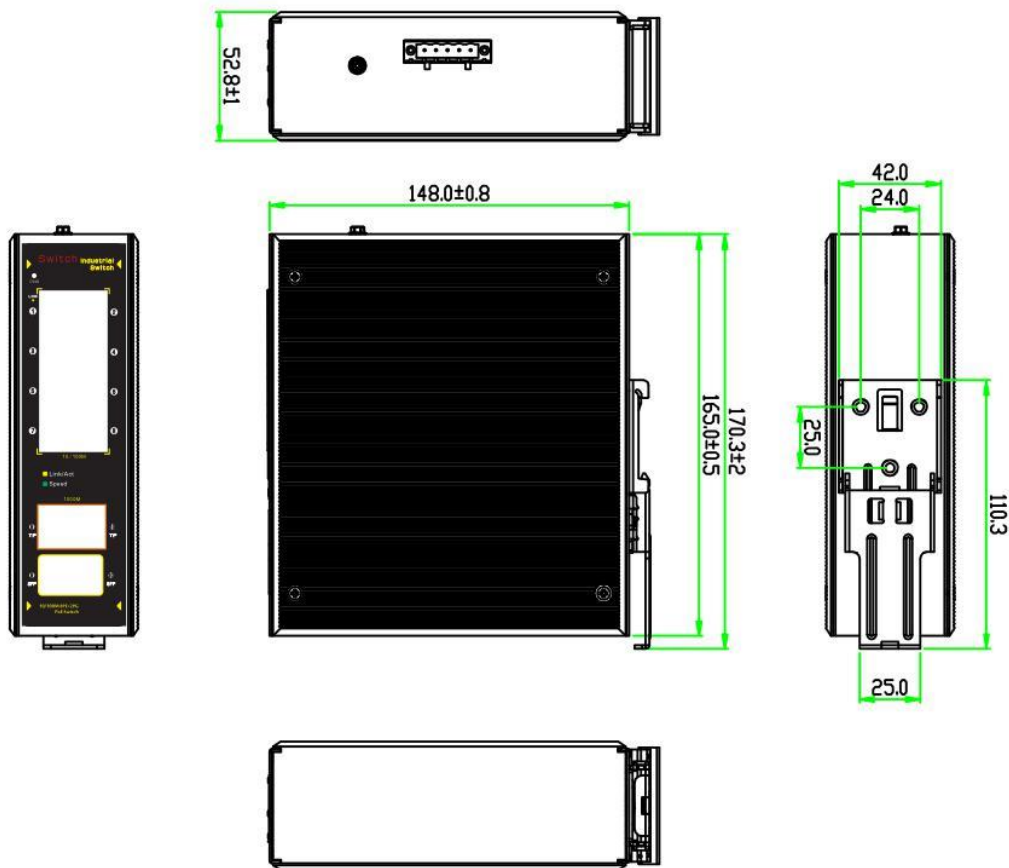
Model	IND-D-U-EG-1002-N
Interface Characteristics	
Fixed Port	8*10/100Base-TX RJ45 ports (Data) 2*10/100/1000M RJ45 ports (Data) 2*1000M SFP slot ports(Data) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)

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)
Ethernet Port	Port 1-8 support 10/100Base-TX, Port 9-10 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
SFP 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 /0~500m, 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-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	12Gbps
Forwarding Rate@64byte	7.14Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (green), network: Link, link/Act (yellow)
Power Supply	

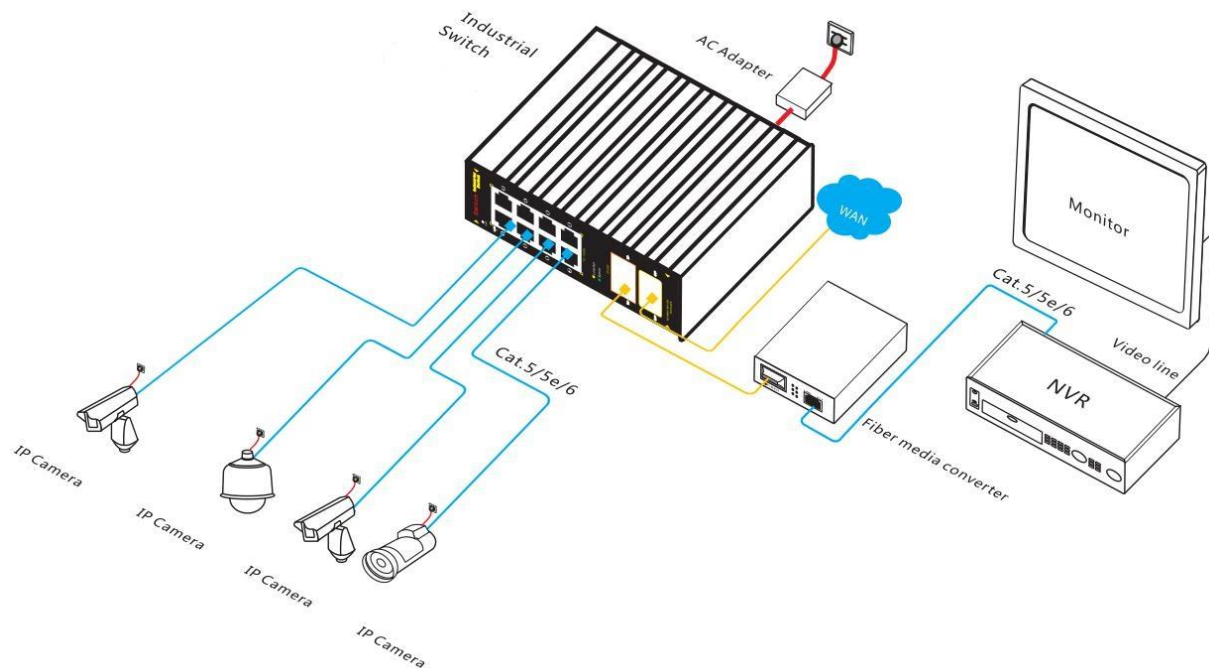
Power Consumption	Standby<8W, Full load<20W
Working Voltage	12-57VDC, 5 Pin industrial Phoenix terminal, support anti-reverse protection
Power Supply	No, optional 24V/24W industrial power supply
Physical Parameter	
Operation TEMP / Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	165*148*54mm
Net /Gross Weight	<1.3kg / <1.8 kg
Installation	Desktop, 35mm 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-EG-100 2-N	Unmanaged industrial Ethernet fiber switch with 8*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 2*1000M uplink SFP slot ports. It can support DC dual redundant power input and DIN rail mounting.	24W

Note: The switch is not include SFP optical module and power supply, and needs to be purchased separately.

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	12-port gigabit uplink industrial PoE fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

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,	PC

		support hot plug and pull.	
	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

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 1.0A Operation Temperature:-40°C—+70°C	PC

RELATED PRODUCT

Model	Description
IND-D-U-E0-0100-N	Unmanaged industrial Ethernet fiber switch with 1*10/100M RJ45 port and 1*155M SC port. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
IND-D-U-E0-0200-N	Unmanaged industrial Ethernet fiber switch with 2*10/100M PoE ports and 1*155M SC port. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
IND-D-U-E0-0400-N	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
IND-D-U-E0-0600-N	Unmanaged industrial Ethernet fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.



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