PRODUCT DESCRIPTION

The **IES-6GT** is a full gigabit industrial Ethernet switch independently developed by Focomm. It is designed to meet industrial fields and systems and can operate stably for a long time in harsh environments. It has 6*10/100/1000M RJ45 ports. Each port can support full line-rate forwarding.

IES-6GT industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP40, It can support dual redundant power supply, low power consumption and no fan cooling technology, MTBF average trouble-free working time up to 35 years, 5-year warranty. 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 forwarding

- All series supports "gigabit RJ45 port and dual uplink RJ45 port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
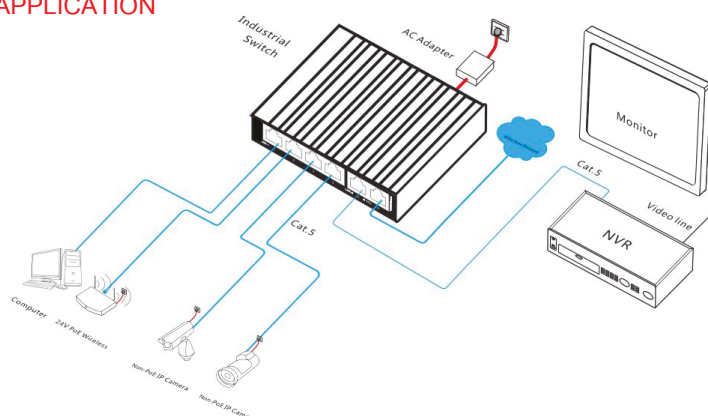- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

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.
- Non-PoE DC INPUT: 12-48V.

Stable and reliable

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

APPLICATION

TECHNICAL SPECIFICATION

Interface Characteristics	
Fixed Port	6*10/100/1000Base-T RJ45 ports (Data)
	2 set of V+, V- redundant DC power ports (5P Phoenix terminal)
Ethernet Port	Port 1-6 support 10/100/1000Base-T(X)
	auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted PairTransmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)
	100BASE-TX: Cat5 or later UTP(≤100 meter)
	1000BASE-T: Cat5e or later UTP(≤100 meter)
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T,
	IEEE802.3u 100Base-TX, IEEE802.3u 1000Base-T, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	1.6Gbps
Forwarding Rate@64byte	8.93Mpps
MAC	8K
Buffer Memory	2M
Forwarding delay	<10us
Jumbo Frame	9.2K
LED Indicator	Power: PWR (green), network: Link ,Link/Act(yellow)
Power	
Working Voltage	12-48VDC, 5P industrial phoenix terminal, support anti-reverse protection
Power Consumption	Standby<4W, Full load<6W
Power Supply	No, optional 24V/24W industrial power supply
Physical Parameter	
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing

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 A
	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	3years

ORDER INFOMATION

PRODUCT	PART NUMBER
L2 Unmanaged industrial Ethernet switch with 6x10/100/1000M RJ45 ports.	IES-6GT