

4-Port 10/100/1000Mbps
Industrial Switch with 1 SFP









### Key Features:

**Ports:** Provide 4\*10/100/1000Mbps Ethernet ports with 1 1000Mbps SFP **Self-adaption:** RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX

Industrial Installation: Din Rail mounting installation

**Wide Application:** Designed for Railway, traffic etc some Industrial environment **Surge protection:** Protect the device from lighting surges and others electrical hazards

**Working Temperature:** -40 to 85 degrees operating temperature **Considerate Design:** IP40 Industrial design with dual power input

Easy to use: Plug and play, No configuration required

### **Environmentally Hardened Design**

With the IP40 metal industrial case which provides a high level of immunity against electromagnetic interference and heavy electrical surges, Being able to operate under the temperature range from -40 to 85 degrees C, the IES7210-4GE1GF-CA can be placed in almost any difficult environment.





### Surge Protection Design

provides contact discharge of ±8KV DC and air discharge of ±15KV DC for Ethernet ESD protection. It also supports ±6KV surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.





### Dual Power input for High Availability Network

Featureing a strong dual power input system with wide-ranging voltages (12V~36V DC or 24V AC) incorporated into customer's automation network to enhance system reliability and uptime which make the installation more flexible and convenient.



#### Gigabit SFP Uplink Port

With two SFP module slot available, the SFP uplink port is ideal for connecting the switch to the network's backbone, providing more than enough bandwidth and stability for ultra high speed data transferring, Beside the SFP can transmitte the date with Max 100Km distance with more economic solution

# IES7210-4GE1GF-CA

# 4-Port 10/100/1000Mbps Industrial Switch with 1 SFP

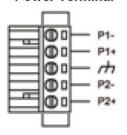
## **Technical Datasheet**

Park	Dorts	Model	IES7210-4GE1GF-CA		
11000Mbps SFP Slot	11000Mbps SFP Slot	Hardware Specifications			
Pin 1/2 for Power 1; Pin 3/4 for Power 2	Pin 1/2 for Power 1; Pin 3/4 for Power 2	ports			
Power consumption   Less than 2.8Watts	Power consumption   Less than 2.8Watts	Connector	No. of the second secon		
Power Consumption   Less than 2.8Watts	Power Consumption         Less than 2.8Watts           Power Connector         Removable 4-pin terminal block,Pin 1/2 for Power 1; Pin 3/4 for Power 2           Installation         DIN-rail kit and wall-mount kit           Backplane bandwidth         20Gbps           Packet forwarding rate         8.93Mpps           MAC address         4k           Flow control         Back pressure for half duple. IEEE 802.3x pause frame for full duplex           ESD Protection         6KV ESD           Dimension(W x D x H)         30 x 90 x 134mm (1.18in x 3.54in x 5.27 )           Weight         0.32Kg           Standards Conformance           IEEE 802.3 10Base-T           IEEE 802.3 bit 100Base-T           IEEE 802.3 bit 100Base-T           IEEE 802.3 bit 100Base-T           IEEE 802.3 bit 100Base-X           FCC CFR47 Part 15, EN55022/CISPR22, Class A           EMS:         IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)           IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)         IEC61000-4-2 (ESD): ±64kV, Data Port: ±2kV           IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV           IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80MHz)           IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80MHz)           IEC61000-4-7 (6 Common mode conduction): 30V (cont.), 300V (1s)     <	LED Display	Power Indicator: PWR(green).Network Indicator: Link(yellow) SFP: Green		
Power Connector   Removable 4-pin terminal block, Pin 1/2 for Power 1; Pin 3/4 for Power 2	Power Connector   Removable 4-pin terminal block,Pin 1/2 for Power 1; Pin 3/4 for Power 2	Power requirements	12~36V DC		
DIN-rail kit and wall-mount kit	DIN-rail kit and wall-mount kit	Power Consumption	Less than 2.8Watts		
Backplane bandwidth   20Gbps	Backplane bandwidth 20Gbps Packet forwarding rate 8.93Mpps  MAC address 4k Flow control Back pressure for half duple. IEEE 802.3x pause frame for full duplex  Enclosure IP40 Metal case  ESD Protection 6KV ESD  Dimension(W x D x H) 30 x 90 x 134mm (1.18in x 3.54in x 5.27 )  Weight 0.32Kg  Standards Conformance  IEEE 802.3 10Base-T IEEE 802.3 10Base-T IEEE 802.3a 1000Base-TX IEEE 802.3a 1000Base-X FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Environment Specification  Operating temperature: -40°C-85°C, operating humidity: 5%~95%	Power Connector	Removable 4-pin terminal block,Pin 1/2 for Power 1; F	Removable 4-pin terminal block,Pin 1/2 for Power 1; Pin 3/4 for Power 2	
Packet forwarding rate	Switch Performance         Packet forwarding rate         8.93Mpps           MAC address         4k           Flow control         Back pressure for half duple. IEEE 802.3x pause frame for full duplex           Enclosure         IP40 Metal case           ESD Protection         6KV ESD           Dimension(W x D x H)         30 x 90 x 134mm (1.18in x 3.54in x 5.27 )           Weight         0.32Kg           Standards Conformance           IEEE 802.3 10Base-T           IEEE 802.3 100Base-Tx           IEEE 802.3 1000Base-T           IEEE 802.3 2 1000Base-T           IEEE 802.3 2 1000Base-X           FCC CFR47 Part 15, EN55022/CISPR22, Class A           EMS:         IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)           IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)         IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM, Data Port: ±2kV           Stability Testing           Stability Testing           IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)           IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)           IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)           IEC6 60068-2-27 (shock)         IEC 60068-2-26 (vibration)           Environment           Operating temperature: -40°C-85°C, o	Installation	DIN-rail kit and wall-mount kit		
MAC address         4k           Flow control         Back pressure for half duple. IEEE 802.3x pause frame for full duplex           Enclosure         IP40 Metal case           ESD Protection         6KV ESD           Dimension(W x D x H)         30 x 90 x 134mm (1.18in x 3.54in x 5.27 )           Weight         0.32Kg           Standards Conformance           IEEE 802.3 100Base-T           IEEE 802.3 100Base-T           IEEE 802.3 2 1000Base-X           FCC CFR47 Part 15, EN55022/CISPR22, Class A           EMS:           IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)           IEC61000-4-4 (EFT): Power Port: ±4kV/; Data Port: ±2kV           Stability Testing         IEC61000-4-5 (Surge): Power Port: ±2kV/IDM, ±4kV/CM, Data Port: ±2kV           IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)           IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)           IEC 60068-2-32 (free fall)           IEC 60068-2-6 (vibration)           Environment	MAC address         4k           Flow control         Back pressure for half duple. IEEE 802.3x pause frame for full duplex           Enclosure         IP40 Metal case           ESD Protection         6KV ESD           Dimension(W x D x H)         30 x 90 x 134mm (1.18in x 3.54in x 5.27 )           Weight         0.32kg           Standards Conformance           IEEE 802.3 10Base-T           IEEE 802.3a b 1000Base-Tx           IEEE 802.3a b 1000Base-X           FCC CFR47 Part 15, EN55022/CISPR22, Class A           EMS:           IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)           IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)           IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV           Stability Testing           IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)           IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)           IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)           IEC 60068-2-32 (free fall)           IEC 60068-2-6 (vibration)           Environment           Environment specification		Backplane bandwidth	20Gbps	
### MAC address	MAC address	Outtob Doutonous	Packet forwarding rate	8.93Mpps	
Enclosure	Enclosure IP40 Metal case  ESD Protection 6KV ESD  Dimension(W x D x H) 30 x 90 x 134mm (1.18in x 3.54in x 5.27 )  Weight 0.32Kg  Standards Conformance  IEEE 802.3 10Base-T IEEE 802.3 u 100Base-Tx IEEE 802.3 ab 1000Base-T IEEE 802.3 z 1000Base-T IEEE 802.3 z 1000Base-X  FCC CFR47 Part 15, EN55022/CISPR22, Class A  EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40℃-85℃, operating humidity: 5%~95% Storage temperature: -40℃-85℃, storage humidity: 5%~95%	Switch Performance	MAC address	4k	
Dimension(W x D x H)   30 x 90 x 134mm (1.18in x 3.54in x 5.27 )	Dimension(W x D x H)   30 x 90 x 134mm (1.18in x 3.54in x 5.27 )		Flow control Back pressure for half duple. IEEI	E 802.3x pause frame for full duplex	
Dimension(W x D x H)  30 x 90 x 134mm (1.18in x 3.54in x 5.27 )  Weight  0.32Kg  Standards Conformance  IEEE 802.3 10Base-T IEEE 802.3u 100Base-Tx IEEE 802.3u 100Base-Tx IEEE 802.3z 1000Base-T IEEE 802.3z 1000Base-X  FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV  Stability Testing  IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40 ℃~85℃, operating humidity: 5%~95%	Dimension(W x D x H)         30 x 90 x 134mm (1.18in x 3.54in x 5.27 )           Weight         0.32Kg           Standards Conformance           IEEE 802.3 10Base-T           IEEE 802.3b 1000Base-T           IEEE 802.3b 1000Base-X           FCC CFR47 Part 15, EN55022/CISPR22, Class A           EMS:         IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)           IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)         IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV           Stability Testing         IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV           IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)           IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)           IEC 60068-2-32 (free fall)           IEC 60068-2-32 (free fall)         IEC 60068-2-27 (shock)           IEC 60068-2-6 (vibration)         IEC 60068-2-6 (vibration)	Enclosure	• • • • • • • • • • • • • • • • • • • •		
Standards Conformance   IEEE 802.3 10Base-T     IEEE 802.3 u 100Base-Tx     IEEE 802.3 u 100Base-Tx     IEEE 802.3 u 100Base-T     IEEE 802.3 u 1000Base-X     IEEE 802.3 u 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:   IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-16 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C-85°C, operating humidity: 5%~95%	Standards Conformance   IEEE 802.3 10Base-T	ESD Protection	6KV ESD		
IEEE 802.3 10Base-T     IEEE 802.3 100Base-Tx     IEEE 802.3ab 1000Base-Tx     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:   IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-16 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Comnon mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%	IEEE 802.3 10Base-T     IEEE 802.3 100Base-Tx     IEEE 802.3 100Base-Tx     IEEE 802.3 1000Base-Tx     IEEE 802.3 1000Base-X     IEEE 802.3 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%     Storage temperature: -40°C~85°C, storage humidity: 5%~95%	Dimension(W x D x H)	30 x 90 x 134mm (1.18in x 3.54in x 5.27 )		
IEEE 802.3 10Base-T     IEEE 802.3u 100Base-Tx     IEEE 802.3u 1000Base-T     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:	IEEE 802.3 10Base-T     IEEE 802.3u 100Base-Tx     IEEE 802.3ab 1000Base-Tx     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%     Storage temperature: -40°C~85°C, storage humidity: 5%~95%	Weight	0.32Kg		
IEEE 802.3u 100Base-Tx     IEEE 802.3ab 1000Base-X     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%	IEEE 802.3u 100Base-Tx     IEEE 802.3ab 1000Base-T     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%     Storage temperature: -40°C~85°C, storage humidity: 5%~95%	Standards Conformance			
IEEE 802.3ab 1000Base-T     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%	IEEE 802.3ab 1000Base-T     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40℃~85℃, operating humidity: 5%~95%     Storage temperature: -40℃~85℃, storage humidity: 5%~95%		IEEE 802.3 10Base-T		
IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X  FCC CFR47 Part 15, EN55022/CISPR22, Class A  EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±2kV; Data Port: ±2kV  Stability Testing  IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%	IEEE 802.3ab 1000Base-T     IEEE 802.3z 1000Base-X     FCC CFR47 Part 15, EN55022/CISPR22, Class A     EMS:     IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%     Storage temperature: -40°C~85°C, storage humidity: 5%~95%	Note and the dead	IEEE 802.3u 100Base-Tx		
FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS:  IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)  IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)  IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV  IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV  IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)  IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)  IEC 60068-2-32 (free fall)  IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%	FCC CFR47 Part 15, EN55022/CISPR22, Class A   EMS:   IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)   IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)   IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV   IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV   IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)   IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)   IEC 60068-2-32 (free fall)   IEC 60068-2-27 (shock)   IEC 60068-2-6 (vibration)   I	Network standard			
EMS:	EMS:		IEEE 802.3z 1000Base-X		
IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)   IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)   IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV   IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV   IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)   IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)   IEC 60068-2-32 (free fall)   IEC 60068-2-27 (shock)   IEC 60068-2-6 (vibration)   IEC 60068-2-6 (vibration)	IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)     IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%     Storage temperature: -40°C~85°C, storage humidity: 5%~95%		FCC CFR47 Part 15, EN55022/CISPR22, Class A		
IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV  Stability Testing  IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV  IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)  IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)  IEC 60068-2-32 (free fall)  IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40℃~85℃, operating humidity: 5%~95%	IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)     IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%     Storage temperature: -40°C~85°C, storage humidity: 5%~95%	Stability Testing	EMS:		
IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV     IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV     IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)     IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)     IEC 60068-2-32 (free fall)     IEC 60068-2-27 (shock)     IEC 60068-2-6 (vibration)     Environment     Operating temperature: -40°C~85°C, operating humidity: 5%~95%	Stability Testing  IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV  IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV  IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)  IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)  IEC 60068-2-32 (free fall)  IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%  Storage temperature: -40°C~85°C, storage humidity: 5%~95%				
Stability Testing  IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV  IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)  IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)  IEC 60068-2-32 (free fall)  IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40℃~85℃, operating humidity: 5%~95%	Stability Testing  IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV  IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)  IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)  IEC 60068-2-32 (free fall)  IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%  Storage temperature: -40°C~85°C, storage humidity: 5%~95%				
IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40℃~85℃, operating humidity: 5%~95%	$IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) \\ IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) \\ IEC 60068-2-32 (free fall) \\ IEC 60068-2-27 (shock) \\ IEC 60068-2-6 (vibration) \\ \hline Environment \\ \hline Environment specification \\ \hline Operating temperature: -40^{\circ}\text{C} \sim 85^{\circ}\text{C}, operating humidity: 5\% \sim 95\% Storage temperature: -40^{\circ}\text{C} \sim 85^{\circ}\text{C}, storage humidity: 5\% \sim 95\%$		Programme in the State of the Company of the Compan		
IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40℃~85℃, operating humidity: 5%~95%	$IEC61000-4-16 \ (Common \ mode \ conduction): \ 30V \ (cont.), \ 300V \ (1s)$ $IEC 60068-2-32 \ (free \ fall)$ $IEC 60068-2-27 \ (shock)$ $IEC 60068-2-6 \ (vibration)$ $Environment$ $Environment \ Specification$ $Operating \ temperature: \ -40^{\circ}C \sim 85^{\circ}C, \ operating \ humidity: \ 5\% \sim 95\%$ $Storage \ temperature: \ -40^{\circ}C \sim 85^{\circ}C, \ storage \ humidity: \ 5\% \sim 95\%$				
IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40 ℃~85 ℃, operating humidity: 5%~95%	$IEC 60068-2-32 \text{ (free fall)}$ $IEC 60068-2-27 \text{ (shock)}$ $IEC 60068-2-6 \text{ (vibration)}$ $Environment$ $Environment specification$ $Operating temperature: -40 ^\circ ~85 ^\circ , operating humidity: 5%~95%$ $Storage temperature: -40 ^\circ ~85 ^\circ , storage humidity: 5%~95%$				
IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%	IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)  Environment  Operating temperature: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ , operating humidity: $5\% \sim 95\%$ Storage temperature: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ , storage humidity: $5\% \sim 95\%$				
IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40 °C ~85 °C, operating humidity: 5%~95%	IEC 60068-2-6 (vibration)  Environment  Operating temperature: -40 °C ~85 °C, operating humidity: 5%~95%  Storage temperature: -40 °C ~85 °C, storage humidity: 5%~95%				
Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%	Environment  Operating temperature: -40°C~85°C, operating humidity: 5%~95%  Storage temperature: -40°C~85°C, storage humidity: 5%~95%				
Operating temperature: -40℃~85℃,operating humidity: 5%~95%	Operating temperature: -40 °C ~85 °C, operating humidity: 5%~95%  Storage temperature: -40 °C ~85 °C, storage humidity: 5%~95%	English and a	IEC 60068-2-6 (vibration)		
Operating temperature: -40 C~85 C, operating humidity: 5%~95%  Environment specification	Environment specification  Storage temperature: -40°C~85°C, storage humidity: 5%~95%	Environment	0.000	Et 50/ 050/	
	11/1/2 (1/1/1/2 )	Environment specification			
1000	Warranty 5 Years				
Warranty 5 Years		Warranty	5 Years		

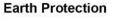
## 4-Port 10/100/1000Mbps Industrial Switch with 1 SFP

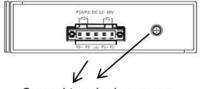
### **Installation Models**

### **Power Terminal**



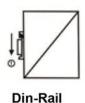
- 5-pin 3.81mm-spacing plug-in terminal
- 12V-36VDC wide voltage input
- P1&P2 dual power input
- Reverse protection





Ground terminal or screw



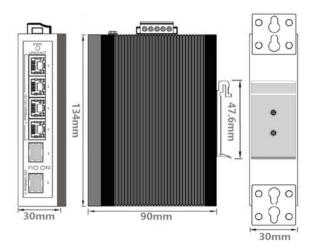




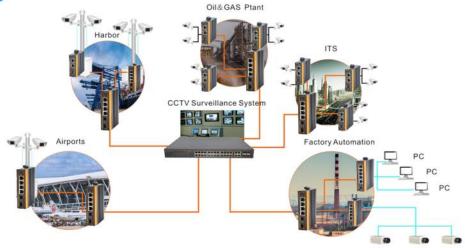


Wall mounting

**Mechanical Drawing** 



## **Applications**



Ordering Information

IES7210-4GE1GF-CA

4 Ports 10/100/1000Mbps Industrial Ethernet switch With 2 SFP