

4-Port 10/100/1000Mbps

Managed PoE Switch with 2

Gigabit SFP









### **Key Features:**

**Ports:** Provide 4\*10/100/1000Mbps PoE ports and 2 \*1.25Gbps SFP Uplink **PoE Standard:** IEEE802.3af/at Power over Ethernet (PoE) Compliant **Self-adaption:** RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX

Managed: Support simple web managed, VLAN, Qos, PoE, STP, Bandwidth Control and etc.

Wide Application: Designed for Wifi AP and IP Security camera. VoIP etc

Surge protection: Protect the device from lighting surges and others electrical hazards

**Working Temperature:** -40 to 75 degrees operating temperature **Considerate Design:** IP40 Industrial design with dual power input

#### Industrial Toughness & Wide Temp Range

Operates flawlessly from -40°C to 75°C with IP40 protection, 8KV surge defense, and rugged DIN rail mounting. Deploy worry-free in freezing warehouses, blazing factory floors, or dusty sites. Withstand voltage spikes from machinery and lightning. The compact rail-mount design saves space in control cabinets or roadside enclosures. Benefit: Slash maintenance costs and downtime with hardware built for harsh environments.







#### Smart PoE++ Power Management

4x IEEE 802.3at PoE+ ports (30W/port, 120W total) with scheduling, priority, and remote reboot via web GUI.Power IP cameras, wireless APs, or access control over a single cable – no outdoor outlets needed. Schedule PoE on/off to save energy, reboot frozen devices remotely, and prioritize critical gear during power shortages. Cut installation costs 40%+ and ensure 24/7 uptime for powered devices.

### Intuitive Web Management Interface

Browser-based centralized control for setup, monitoring, and diagnostics. Configure VLANs, PoE, or rings in minutes – no CLI expertise needed. Monitor port status, traffic flows, and power usage in real-time. Receive alerts for faults or attacks. Deploy and manage distributed industrial networks with IT-level control and 70% less effort.



## IES7512-4PGE2GF-DC

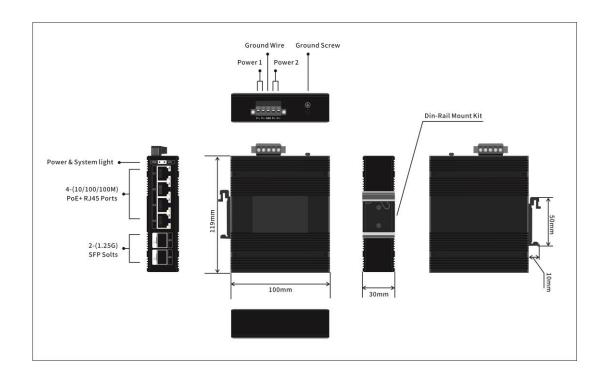
4-Port 10/100/1000Mbps WEB Managed PoE Switch with 2 Gigabit SFP

### **Technical Datasheet**

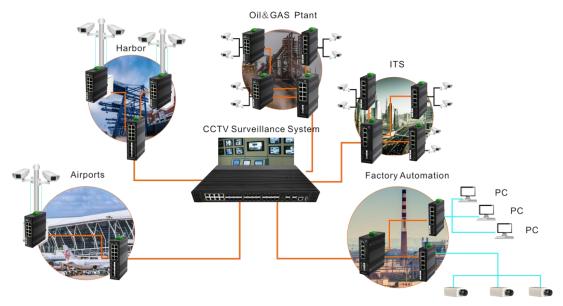
Model	IES7512-4PGE2GF-DC
Hardware Specifications	
Connector	4* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports
	2* 1000 Base-X SFP Slots
PoE Port	4* 10/100/1000Mbps POE PSE port
SFP	Singe fiber/Dual fiber supported. Distance vary the module
Reset Button	< 10 sec: System reboot
	> 10 sec: Factory default
	Power Indicator: PWR(green).
LED indicators	Network Indicator: Link(green)
	PoE Working Indicator: PoE(green)
Power Connector	Removable 5-pin terminal block Pin 1/2 for Power 1; Pin 3 for ground wire; Pin 4/5 for Power 2
Power Requirements	48~54V DC, 3A (max.) (>51V DC for PoE+ output recommended)
i ower itequirements	40~34 V DC, 3A (max.) (201 V DC for 1 OL+ output recommended)
Power Consumption/ Dissipation	Max. 5.72 watts/22.91BTU (system on)
	Max. 132 watts/859.32BTU (Full loading)
ESD Protection	Contact Discharge 6KV DC, Air Discharge 8KV DC
Enclosure	IP40 aluminum case
Thermal Fan	Fanless Design
Installation	Din Rail
Dimension(WxDxH)	30mm x 100mm x 120mm
Weight	0.35Kg
Switching Specifications	
	IEEE802.3i 10 BASE-T
	IEEE802.3u 100 BASE-TX
Network standard	IEEE802.3ab 1000BASE-T
	IEEE802.3z 1000BASE-X
	IEEE802.3x Flow Control
Switch Architecture	Store and Forward
Backplane bandwidth	12Gbps
Packet forwarding rate	7.44Mpps
MAC address	4k
Shared Data Buffer	3.2 megabits
Jumbo Frame	10 Kbytes
Flow Control	IEEE802.3X full-duplex and Backpressure half-duplex

POE Standard   IEEE 802.3af Power over Ethernet/PSE	Power over Ethernet (PoE) Specifications		
IEEE 802.3at Power over Ethernet Plus/PSE	PoE Standard	IEEE 802.3af Power over Ethernet/PSE	
Per Power Output		IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Power Output         Per port 48V-51V DC, max. 15.4 watts               IEEE 802.3at Standard	PoE Supply Type	1/2(+), 3/6(-) End-span	
		IEEE 802.3af Standard	
IEEE 802.3at Standard		Per port 48V~51V DC, max. 15.4 watts	
POE Power Budget         Dual power input: maximum 120W (depending on power input)           Max. Number of Class 2 PDs         4           Max. Number of Class 3 PDs         4           Max. Number of Class 4 PDs         4           Max. Number of Class 4 PDs         4           Layer 2 Functions           Port Mirroring         TX / RX / both Many-to-1 monitor           Van           Spanning Tree Protocol         RX RX / both Many-to-1 monitor           Spanning Tree Protocol         RX RX / both Many-to-1 monitor           Spanning Tree Protocol         RX RX / Both Many-to-1 monitor           STP, IEEE 802.10 Spanning Tree Protocol           IGMP         IGMP RX Rx Rapid Spanning Tree Protocol           IGMP RX Rx Rapid Spanning Tree Protocol           Bandwidth Control         16-1000000 (Kbit/sec), multiple of 16           Open close port           Spanning Tree Protocol           Poet close port           Spanning Tree Protocol           Poet close port           Spanning Tree Protocol           Poet close spanning Tree Protocol           Spanning Tree Protocol		IEEE 802.3at Standard	
Max. Number of Class 2 PDs       4         Max. Number of Class 3 PDs       4         Max. Number of Class 4 PDs       4         Layer 2 Functions       TX / RX / both Many-to-1 monitor         Port Mirroring       TX / RX / both Many-to-1 monitor         Vlan       TX / RX / both Many-to-1 monitor         Spanning Tree Protocol       TX / RX / both Many-to-1 monitor         Spanning Tree Protocol       TX / RX / both Many-to-1 monitor         Spanning Tree Protocol       TX / RX / both Many-to-1 monitor         Spanning Tree Protocol       TX / RX / both Many-to-1 monitor         Spanning Tree Protocol       TX / RX / both Many-to-1 monitor         Spanning Tree Protocol       TRIP (EEE 802.10 Paper)         Band Mid Ty Spanning Tree Protocol       REE 802.10 Spanning Tree Protocol         I 6-1000000 (Kbit/sec), multiple of 16       Colspanding Tree Protocol         Bandwidth Control       16-1000000 (Kbit/sec), multiple of 16         Poe Management       Spanning Tree Protocol         Bandwidth Control       Spanning Tree Protocol         Bandwidth Control       Spanning Tree Protocol         Bandwidth Control       Spanning Tree Protocol         Ba		Per port 51V~54V DC, max. 32 watts	
Max. Number of Class 3 PDs     4       Max. Number of Class 4 PDs     4       Layer 2 Functions     Port Mirroring     TX / RX / both Many-to-1 monitor       Vlan     802.10 tagged-based VLAN       Up to 26 VLAN groups     STP, IEEE 802.1D Spanning Tree Protocol       RSTP, IEEE 802.1D Spanning Tree Protocol       IGMP     IGMP snooping       Loopback detection     Support       Bandwidth Control     16-1000000 (Kbit/sec), multiple of 16       PoE Management     2 mapping ID to 8 level priority queues       CoS     Port number       Port number     802.1p priority       Security     Static MAC address       Storm Control       Management Function     Web browser / SNMP v1, v2c       Firmware upgrade by HTTP protocol through Ethernet network       Secure Management Interfaces     SNMP       Environment     For C Part15 Class A,CE.RoHs       IEC 60068-2-32 (free fall)       Stability Testing     IEC 60068-2-32 (free fall)       Environment specification     Operating temperature: -40°-75°, operating humidity: 5%-95%	PoE Power Budget	Dual power input: maximum 120W (depending on power input)	
Max. Number of Class 4 PDs         4           Layer 2 Functions	Max. Number of Class 2 PDs	4	
Layer 2 Functions         Port Mirroring       TX / RX / both Many-to-1 monitor         Vlan       802.1Q tagged-based VLAN         Up to 26 VLAN groups         Spanning Tree Protocol       STP, IEEE 802.1D Spanning Tree Protocol         IGMP       IGMP snooping         Loopback detection       Support         Bandwidth Control       16-100000 (Kbit/sec), multiple of 16         PoE Management       0 Open or close port Standard POE scheduling management Power and current display         8 mapping ID to 8 level priority queues         Port number	Max. Number of Class 3 PDs	4	
Port Mirroring       TX / RX / both Many-to-1 monitor         Vlan       802.1Q tagged-based VLAN         Up to 26 VLAN groups         Spanning Tree Protocol       STP, IEEE 802.1D Spanning Tree Protocol         RSTP, IEEE 802.1 w Rapid Spanning Tree Protocol         IGMP       IGMP snooping         Loopback detection       Support         Bandwidth Control       16-1000000 (Kbit/sec), multiple of 16         PoE Management       Open or close port standard POE scheduling management Power and current display         8 mapping ID to 8 level priority queues         QoS       Port number 802.1p priority         Security       Static MAC address storm Control         Management Function       Web browser / SNMP v1, v2c Firmware upgrade by HTTP protocol through Ethernet network         Secure Management Interfaces       SNMP         Environment         Statity FCC Part15 Class A,CE.RoHs         Environment       IEC 60068-2-32 (free fall)         Stability Testing       IEC 60068-2-32 (free fall)         Environment specification       Operating temperature: -40°-75°C, operating humidity: 5%-95%	Max. Number of Class 4 PDs	4	
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Loopback detection       Support         Bandwidth Control       16-1000000 (Kbit/sec), multiple of 16         PoE Management       Open or close port Standard POE scheduling management Power and current display         A mapping ID to 8 level priority queues         QoS       Port number 802.1p priority         Security       Static MAC address Storm Control         Management Function       Web browser / SNMP v1, v2c Firmware upgrade by HTTP protocol through Ethernet network         Secure Management Interfaces       SNMP         Environment       FCC Part15 Class A,CE.RoHs         Etability Testing       IEC 60068-2-32 (free fall)         Etability Testing       IEC 60068-2-6 (vibration)         Environment specification       Operating temperature: -40°C-75°C, operating humidity: 5%-95%	Spanning Tree Protocol	RSTP, IEEE 802.1w Rapid Spanning Tree Protocol	
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PoE Management  Open or close port Standard POE scheduling management Power and current display  8 mapping ID to 8 level priority queues Port number	Loopback detection	Support	
Standard POE scheduling management Power and current display  8 mapping ID to 8 level priority queues  Port number 802.1p priority  Security  Static MAC address Storm Control  Management Function  Basic Management Interfaces  Web browser / SNMP v1, v2c Firmware upgrade by HTTP protocol through Ethernet network  Secure Management Interfaces SNMP  Environment  Safety  FCC Part15 Class A,CE.RoHs  IEC 60068-2-32 (free fall)  Stability Testing  IEC 60068-2-6 (vibration)  Operating temperature: -40°C~75°C, operating humidity: 5%~95%	Bandwidth Control	16-1000000 (Kbit/sec), multiple of 16	
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Storm ControlManagement FunctionBasic Management InterfacesWeb browser / SNMP v1, v2c Firmware upgrade by HTTP protocol through Ethernet networkSecure Management InterfacesSNMPEnvironmentEnvironmentSafetyFCC Part15 Class A,CE.RoHs IEC 60068-2-32 (free fall)Stability TestingIEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)Environment specificationOperating temperature: -40 ℃~75 ℃, operating humidity: 5%~95%	Conumity	Static MAC address	
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Firmware upgrade by HTTP protocol through Ethernet network  Secure Management Interfaces  SNMP  Environment  Safety  FCC Part15 Class A,CE.RoHs  IEC 60068-2-32 (free fall)  Stability Testing  IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Operating temperature: -40°C~75°C, operating humidity: 5%~95%	Management Function		
Firmware upgrade by HTTP protocol through Ethernet network  Secure Management Interfaces SNMP  Environment  Safety FCC Part15 Class A,CE.RoHs  IEC 60068-2-32 (free fall)  Stability Testing IEC 60068-2-27 (shock)  IEC 60068-2-6 (vibration)  Operating temperature: -40°C~75°C, operating humidity: 5%~95%	Rasic Management Interfaces	Web browser / SNMP v1, v2c	
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Stability Testing	Environment		
Stability Testing IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)   Operating temperature: $-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$ , operating humidity: $5\% \sim 95\%$	Safety	FCC Part15 Class A,CE.RoHs	
IEC 60068-2-6 (vibration)   Operating temperature: -40 $^{\circ}$ -75 $^{\circ}$ , operating humidity: 5% -95%   Environment specification	Stability Testing	IEC 60068-2-32 (free fall)	
Operating temperature: -40 $^\circ\!$		IEC 60068-2-27 (shock)	
Environment specification		IEC 60068-2-6 (vibration)	
Environment specification	Environment specification	Operating temperature: -40 $^{\circ}\!$	
Storage temperature: -40 $^{\circ}$ C $^{\circ}$ Storage humidity: 5 $^{\circ}$ K $^{\circ}$		Storage temperature: -40℃~85℃,storage humidity: 5%~95%	

# **Mechanical Drawing**



### **Applications**



Ordering Information	
IES7512-4PGE2GF-DC	4 Ports 10/100/1000Mbps managed PoE switch with 2 gigabit SFP ,
1207012 11 02201 00	6KV surge protection,IEEE802.3af/at

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IES7512-4PGE2GF-DC

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