

IESP-M242C Industrial Managed PoE Switch

24* 10/100TX 802.3af PoE + 2* Combo (10/100/1000TX or 100/1000 SFP)



Benefits

<ul style="list-style-type: none"> ■ System Interface/Performance <ul style="list-style-type: none"> ➢ RJ-45 port support Auto MDI/MDI-X Function ➢ Embedded 24-port PoE inject function ➢ Store-and-Forward Switching Architecture ➢ Back-plane (Switching Fabric): 8.8Gbps ➢ 4Mbits Packet Buffer ➢ 8K MAC Address Table ➢ Redundant Power Supply Design 	<ul style="list-style-type: none"> ■ Spanning Tree <ul style="list-style-type: none"> ➢ Support IEEE802.1w Rapid Spanning Tree
<ul style="list-style-type: none"> ■ VLAN <ul style="list-style-type: none"> ➢ Port Based VLAN ➢ Support 802.1 Q Tag VLAN ➢ GVRP 	<ul style="list-style-type: none"> ■ Support up to 255 Policy ACL (Access Control List)
<ul style="list-style-type: none"> ■ Port Trunk with LACP 	<ul style="list-style-type: none"> ■ Support IEEE802.1ab LLDP
<ul style="list-style-type: none"> ■ QoS (Quality of Service) <ul style="list-style-type: none"> ➢ Support IEEE 802.1p Class of Service, ➢ Per port provides 4 priority queues ➢ Port Base, Tag Base and Type of Service Priority 	<ul style="list-style-type: none"> ■ Rate Limit <ul style="list-style-type: none"> ➢ Ingress Packet Filter and Egress Rate Limit ■ Broadcast Storm Control <ul style="list-style-type: none"> ➢ Broadcast/Flooded Unicast/Multicast/Control/IP multicast Packet Filter Control
<ul style="list-style-type: none"> ■ Port Mirror: Monitor traffic in switched networks <ul style="list-style-type: none"> ➢ TX Packet only ➢ RX Packet only ➢ Both of TX and RX Packet 	<ul style="list-style-type: none"> ■ System Event Log <ul style="list-style-type: none"> ➢ System Log Server/Client ➢ SMTP e-mail Alert ➢ Relay Alarm Output System Events
<ul style="list-style-type: none"> ■ Security <ul style="list-style-type: none"> ➢ Port Security : MAC address entries/filter ➢ IP Security : IP address security management to prevent unauthorized intruder. ➢ Login Security: IEEE802.1X/RADIUS 	<ul style="list-style-type: none"> ■ SNMP Trap <ul style="list-style-type: none"> ➢ Device cold start ➢ Authentication failure ➢ X-Ring topology changed ➢ Port Link up/Link down ➢ PoE port events
<ul style="list-style-type: none"> ■ IGMP <ul style="list-style-type: none"> ➢ Query mode for Multi Media Application ➢ Support multicast filter 	<ul style="list-style-type: none"> ■ TFTP Firmware Update and System Configure Restore and Backup
<ul style="list-style-type: none"> ■ X-Ring <ul style="list-style-type: none"> ➢ X-Ring, Dual Homing and Couple Ring Topology ➢ Provide redundant backup feature and the recovery time below 20ms 	<ul style="list-style-type: none"> ■ Case/Installation <ul style="list-style-type: none"> ➢ IP-30 Protection ➢ DIN Rail and Wall Mount Design
<ul style="list-style-type: none"> ■ Provides EFT protection 4KV for power line 	<ul style="list-style-type: none"> ■ Supports 6KV Ethernet ESD protection

Standard Compliance

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX / 100Base-FX IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.3af Power over Ethernet IEEE802.1d Spanning Tree/ IEEE802.1w Rapid Spanning Tree IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.1x User Authentication (Radius) IEEE802.1ab LLDP
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Hardware Specification

Switch Architecture	Back-plane (Switching Fabric): 8.8Gbps Packet throughput ability(Full-Duplex): 13.1Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber Ethernet port
Packet Buffer	4Mbits
Mac Address	8K MAC address table
Flash ROM	4Mbytes
DRAM	32Mbytes
Jumbo frame	9022bytes (for Gigabit Ports)
Connector	10/100TX: 24 x RJ-45 10/100/1000T/ Mini-GBIC Combo: 2 x RJ-45 + 2 x SFP sockets RS-232 Console: 1 x Female DB-9 Power Input: 1 x 10-pole Removable Terminal Block
PoE pin assignment	RJ-45 port # 1~# 24 support IEEE 802.3af End-point, Alternative A mode. Per port provides 15.4W ability. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6 Data(1,2,3,6)
LED	Power: DC-PWR1 (Green), DC-PWR2 (Green), FAULT (Amber) Port 1-24: PoE (Green), LNK/ACT (Green), FDX (Amber) Port 25-26: LNK/ACT (Green), FDX/COL (Amber)
Power Input	DC 48V input, Redundant power with polarity reverse protect function
Relay Alarm	Provides one relay output for port link-down and power fail alarm Alarm Relay current carry ability: 1A @ DC24V
Power Consumption	335 Watts max.
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	-10°C ~ 60°C;
Storage Temperature	-40°C ~ 85°C
Fan	Fanless
Case Dimension	440mm(W) x 280mm(D) x 44mm(H)
Installation	19" Rack mount
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-6-2, CE EN61000-6-4
Safety	UL, cUL, CE/EN60950-1
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

Software Feature

Management	SNMP v1 v2c, v3/ Web/Telnet/CLI Management
SNMP MIB	RFC 1213 MIBII, RFC 2011 SNMP V2 MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1215 Trap MIB, RFC 1643 Ethernet Like, RFC 1757 RMON1, RSTP MIB, PoE MIB, LLDP MIB, Private MIB

VLAN	Port based VLAN IEEE802.1Q Tag VLAN Static VLAN groups up to 256, VLAN ID from 1 to 4094. GVRP up to 256 groups.
Port Trunk with LACP	LACP Port Trunk: 13 Trunk groups/Maximum 4 trunk members
LLDP	Support LLDP to allow switch to advise its identification and capability on the LAN
X-Ring	Support X-Ring, Dual Homing and Couple Ring Topology. Provide redundant backup feature and the recovery time below 20ms
Spanning Tree	Support IEEE802.1w Rapid Spanning Tree
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service
Class of Service	Support IEEE802.1p class of service, per port provides 4 priority queues
Port / MAC Security	Support 50 entries of MAC address for static MAC and another 50 for MAC filter
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
IGMP	Support IGMP snooping v1,v2 256 multicast groups and IGMP query Support multicast filter
IP Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
Login Security	Support IEEE802.1X Authentication/RADIUS
Access Control List(ACL)	Support up to 255 Policy
Rate limit	Support ingress packet filter and egress packet limit The egress rate control supports all of packet type and the limit rates are 0~100Mbps for 10/100TX port and 0~1000Mbps for Giga Mini-GBIC port.
Broadcast Storm Control	Ingress filter packet type combination rules are Control packet, IP Multicast packet, Flooded Unicast/Multicast packet, Broadcast packet only and all types of packet. The packet filter rate range can be set 1/2, 1/4, 1/8, or 1/16 of ingress rate.
Flow Control	Support Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Support System log record and remote system log server
SMTP	Support 1 SMTP Server and 6 e-mail accounts for receiving event alert
SNMP Trap	1. Device cold start, 2. Authorization failure, 3. X-Ring topology changed. 4. Port link up/ link down. 5. DC disconnect trap-PoE port Event Trap station up to 3
DHCP	Provide DHCP Client/ DHCP Server/ Per Port IP binding functions
DNS	Provide DNS client feature and support Primary and Secondary DNS server.
SNTP	Support SNTP to synchronize system clock in Internet
Firmware Update	Support TFTP & Console firmware update, TFTP & Console backup and restore.
Configuration upload and download	Support binary format configuration file for system quick installation
ifAlias	Each port allows importing 128bit of alphabetic string of word on SNMP and CLI interface.

Order Information

Product Name	Description
IESP-M242C	24 10/100TX + 2 10/100/1000T/Mini-GBIC Combo w/ 24 PoE Injector Managed Industrial Switch -10°C ~ 60°C