

IES-M062F-300 Industrial Managed Switch

8-port: 6* 10/100TX + 2* 100FX (Multimode or Single Mode)



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 ➢ Store-and-Forward Switching Architecture ➢ Back-plane (Switching Fabric): 1.6Gbps ➢ 1Mbits Packet Buffer ➢ 2K MAC Address Table 	<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"> ■ Power Supply <ul style="list-style-type: none"> ➢ Wide-range Redundant Power Design ➢ Power Polarity Reverse Protect 	<ul style="list-style-type: none"> ■ Spanning Tree <ul style="list-style-type: none"> ➢ Support IEEE802.1d Spanning Tree ➢ 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 	<ul style="list-style-type: none"> ■ X-Ring (300ms Recovery Version) <ul style="list-style-type: none"> ➢ X-Ring, Dual Homing, and Couple Ring Topology ➢ Provide redundant backup feature and the recovery time below 300ms
<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"> ■ Bandwidth Control <ul style="list-style-type: none"> ➢ Ingress Packet Filter and Egress Rate Limit ➢ Broadcast/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 ➢ 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"> ■ IP Security : IP address security management to prevent unauthorized intruder 	<ul style="list-style-type: none"> ■ SNMP Trap <ul style="list-style-type: none"> ➢ Device cold start ➢ Power status ➢ Authentication failure ➢ X-Ring topology changed ➢ Port Link up/Link down
<ul style="list-style-type: none"> ■ IGMP with Query mode for Multi Media Application 	<ul style="list-style-type: none"> ■ TFTP Firmware Update and System Configure Restore and Backup

Standard Compliance

IEEE Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet
	IEEE802.3x Flow Control and Back Pressure
	IEEE802.1d Spanning Tree/ IEEE802.1w Rapid Spanning Tree
	IEEE802.1p Class of Service
	IEEE802.1Q VLAN Tag

Hardware Specification

Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps Packet throughput ability (Full-Duplex): 1.19Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
Memory Buffer	1Mbits
MAC Address	2K MAC address table
Flash ROM	512Kbytes
DRAM	8Mbytes
Connector	10/100TX: 6 x RJ-45 with auto MDI/MDI-X function 100M fiber: 2 x SC type connector for Single-mode or Multi-mode type fiber cable
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
Optical Cable	SC (Multi-mode): 50/125um~62.5/125um SC (Single-mode): 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode) WDM13 (Single-mode):TX-1310/RX-1550 nm /25km WDM15 (Single-mode):TX-1550/RX-1310 nm /25km
Protocol	CSMA/CD Per port: Link/Activity (Green), Full duplex/Collision (Yellow)
LED	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green)
Power Supply	DC 12~48V, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
Power Consumption	7.68 Watts
Operating Humidity	5%~95% (Non-condensing)
Operating Temperature	Standard: -10°C ~60°C ; Wide Operating Temperature (-40°C ~75°C)
Storage Temperature	-40°C ~85°C
Case Dimension	IP-30 Case protection, 54 mm (W) x 105mm (D) x 135 mm (H)
Installation	Provide DIN rail kit and wall mount ear for wall mount or DIN-type cabinet install
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), 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, Web interface management
SNMP MIB	RFC 1213 MIBII, RFC 1493 Bridge MIB, RMON RFC 1757, RFC 2674 VLAN MIB, RFC 1643 Ethernet like MIB, RFC1215 Trap MIB, IGMP MIB Private MIB for switch information, X-Ring, port alarm, TFTP firmware upgrade, reset, port mirror, IP security
VLAN	Support Port based VLAN and IEEE802.1Q Tag VLAN Both of port based and Tag based VLAN group up to 256 VLANs
Spanning Tree	Support IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree
X-Ring	Support X-Ring, Dual Homing, and Couple Ring (300ms Recovery Version) Provide redundant backup feature and the recovery time below 300ms
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service
Class of Service	Support IEEE802.1p class of service, per port provides 4 priority queues
Port Mirror	Support TX packet only or both of TX and RX packet
IGMP	Support IGMP v1 and Query mode. Up to 256 groups
IP Security	Support 10 IP addresses that have permission to access the switch management
Bandwidth Control	Support ingress packet filter and egress packet limit The egress rate control supports all of packet type and the limit rates are 128Kbps, 256Kbps, 512Kbps, 1Mbps, 2Mbps, 4Mbps, and 8Mbps Ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all of packet. The packet filter rate can be set follow as:1Mbps, 2Mbps, 4Mbps, 8Mbps, 16Mbps, 32Mbps, 64Mbps

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 SMTP Server and 4 e-mail accounts for receiving event alert
Relay Alarm	Provides one relay output for port breakdown, power fail and provide DIP switch to mask link down port Alarm Relay current carry ability: 1A @ DC24V
SNMP Trap	Up to 3 Trap stations Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, Port Alarm configuration, Fault alarm, X-Ring topology change
DHCP	Provide DHCP client function to obtain IP address from DHCP server
SNTP	Support SNTP to synchronize system clock in Internet
Firmware Update	Support TFTP firmware update, TFTP backup and restore
Configuration upload and download	Support binary configuration file for system quick installation

Order Information

Product Name	Description
IES-M062F-300 (SC/MM)	6 10/100TX + 2 100FX (SC, MM 2km) w/ X-Ring Managed Industrial Switch(-10°C~60°C)
IES-M062FE-300 (SC/MM)	6 10/100TX + 2 100FX (SC, MM 2km) w/ X-Ring & Wide Operating Temperature (-40°C~75°C) Managed Industrial Switch
IES-M062F-300 (ST/MM)	6 10/100TX + 2 100FX (ST, MM 2km) w/ X-Ring Managed Industrial Switch(-10°C~60°C)
IES-M062FE-300 (ST/MM)	6 10/100TX + 2 100FX (ST, MM 2km) w/ X-Ring & Wide Operating Temperature (-40°C~75°C) Managed Industrial Switch
IES-M062F-300 (SC/SM30)	6 10/100TX + 2 100FX (SC, SM 30km) w/ X-Ring Managed Industrial Switch(-10°C~60°C)
IES-M062F-300 (SC/SM30)	6 10/100TX + 2 100FX (SC, SM 30km) w/ X-Ring & Wide Operating Temperature (-40°C~75°C) Managed Industrial Switch

X-Ring 300ms model cannot co-operate with X-Ring 20ms model in the same X-Ring topology.