

IMP-F1002G Series

MANAGED INDUSTRIAL PoE+ Fast ETHERNET SWITCH

Port Configuration

- 8*10/100Base-T
- 2*100/1000 combo ports
- Support 8 ports
IEEE802.3at/af 30Watt

Operating Temperature

- IMP-F1002G : -10~65°C
- IMP-F1002G-T: -40~75°C
- IMP-F1002G-12 : -10~65°C
- IMP-F1002G-12-T : -40~75°C

Key Features

- Support 12V/24V/36V booster PoE+ with redundant power input (IMP-F1002G-12(-T))
- Standard G.8032 ERPS and RSTP for fast ring recovery
- Intelligent PoE for powered device (PoE Alive Heartbeat, PoE ports power scheduling)
- IGMP Snooping v1/v2 and IGMP Query for IP multicast traffic control.
- 802.1p, Access control list and rate limitation to optimize traffic flow.
- System diagnostic monitor the status and response event by E-mail, SNMP
- DHCP client/relay with option 82 for easy IP management



IMP-F1002G Series – the full PoE+ fast Ethernet ports with two 100/1000 combo ports, perfect for industrial high-end PoE application.

IMP-F1002G series are layer 2 managed industrial switches that are designed for heavy industrial environments. Future-proof multi-rate 100/1000 fiber and copper ports are suitable for high uplink bandwidth migration. Engineered with hardened components and enclosed in a rugged IP30 metal case, the switch can operate in temperatures from -10°C to 65°C (wide temperature type from -40°C to 75°C) and also has excellent tolerance capability of high vibration and shock.

The switch equipped with a variety of management functions can configure rich communication parameters and monitor the network behaviors powerfully. In addition, the switch is built-in dual redundant power inputs to ensure reliability and maximize network up time. The switch's standard G.8032 ERPS ring technology can offer a fast recovery time of less than 50ms. More integrated features of the switch such as storm control, rate limitation, IGMP snooping, STP/RSTP, etc., optimize the network performance and provide a secure and stable network.

Hardware Specifications

Port Configuration	8*10/100Base-T + 2*100/1000 combo ports
PoE Port	Support 8 ports IEEE802.3at/af 30Watt
Console	RJ45
USB port	1* USB2.0
Standard	IEEE 802.3 IEEE 802.3U IEEE 802.3z IEEE 802.1D IEEE 802.1w IEEE 802.1s IEEE 802.1Q IEEE 802.1x IEEE 802.1ad ITU-T G.8032 IEEE 802.1p IEEE 802.3at IEEE 802.3af
Switch Capacity	5.6Gbps
MAC address	8K
Reverse Polarity Protection	Supported
Over current protection	Supported
Power Input voltage	IMP-F1002G(-T): 48~55VDC IMP-F1002G-12 (-T): 12~36VDC
Dual power inputs	Supported
Power consumption	IMP-F1002G(-T): 52V@255Watt(Max.) IMP-F1002G-12(-T): 12V@145Watt, 24V@200Watt (Max.)

Operating Temperature	IMP-F1002G: -10°C~60°C IMP-F1002G-T: -40°C~75°C IMP-F1002G-12: -10°C~60°C IMP-F1002G-12-T: -40°C~75°C
Operating Humidity	5 to 95% RH (non-condensing)
Storage Temperature	-40°C~85°C
Storage Humidity	5 to 95% RH (non-condensing)
Housing Protection	IP30, Metal
Mounting	DIN-Rail
Dimensions (WxHxD mm)	46x142x99
Weight	750g
EMI	FCC part 15 subpart B Class A CE EN55022 Class A
EMS	IEC61000-4-2(ESD) EN61000-4-3(RS) EN61000-4-4(EFT) EN61000-4-5(Surge) EN61000-4-6(CS) EN61000-4-8(Magnetic Field)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Software Specifications

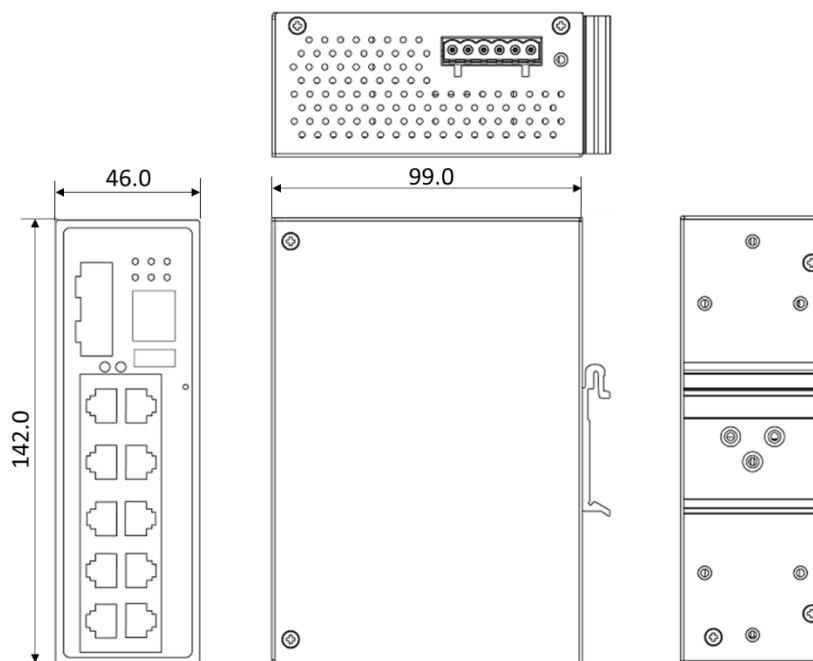
VLAN ID	4K
VLAN group	IEEE 802.1Q VLAN 802.1ad Q-in-Q provider bridge Management VLAN
Link Aggregation	Supported

Spanning Tree	IEEE 802.1ad STP IEEE 802.1w RSTP IEEE 802.1s MSTP
ITU-T G.8032 ERPS	Supported, <50ms
Traffic QoS	IEEE 802.1p SP/WRR IP DSCP

Bandwidth Control	Ingress
	Egress
Strom Control	Broadcast
IP Multicast	IGMP Snooping v1/v2
	MLD Snooping
Access control list (ACL)	Supported
Security	Port Security
	Static MAC address
Port Mirroring	Supported
Authentication	IEEE 802.1x Port based
	RADIUS
Management Interface	CLI, Web, Telnet
SSH	Supported
SSL	Supported
SNMP	v1, v2c, v3
Modbus TCP	Supported

RMON	RMON(1,2,3,9)
MIB II	RFC 1213
DHCP	Client
	Relay
	DHCP option82
Event Syslog	Supported
Diagnostics	SFP DDMI
Warning message	System log, e-mail(SMTP)
NTP/SNTP	SNTP/NTP
Software Upgrade	HTTP/TFTP, USB
Configuration Upgrade	HTTP/TFTP, USB

Dimension



Ordering Information

Part Number	Description
IMP-F1002G	8*10/100Base-T with PoE+ + 2*100/1000 combo ports (-10°C~65°C)
IMP-F1002G-T	8*10/100Base-T with PoE+ + 2*100/1000 combo ports (-40°C~75°C)
IMP-F1002G-12	8*10/100Base-T with PoE+ + 2*100/1000 combo ports , 12V/24V/36V booster (-10°C~65°C)
IMP-F1002G-12-T	8*10/100Base-T with PoE+ + 2*100/1000 combo ports , 12V/24V/36V booster (-40°C~75°C)