

RP-IPE082GXE

8 10/100TX + 2G (TP/SFP) combo Managed Industrial PoE Switch (Wide Temperature)

RP-IPE082GXE supports 8 Power over Ethernet (PoE) ports and 2 Gigabit combo ports. The PoE device helps realize a centralized power supply solution and provides up to 15.4 watts of power per port. It meets the high reliability requirements demanded by industrial applications, such as factory assembly line, automation, transportation and heavy Industrial factory.

To create reliability in your network, the RP-IPE082GXE comes equipped with a proprietary redundant network protocol, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 10ms. Furthermore, RP-IPE082GXE also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

The switch with IP-30 standard compact metal case allows either DIN rail or wall mounting for efficient use of cabinet space.



Feature

- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 5.6Gbps
- 1Mbits Packet Buffer ; 8K MAC Address Table
- Redundant Power Design
- Port Based VLAN, Support 802.1Q Tag VLAN, GVRP; Port Trunk with LACP
- Support IEEE 802.1p Class of Service, Per port provides 4 priority queues
- Port Base, Tag Base and Type of Service Priority
- Port Mirror: Monitor traffic in switched networks
- Port Security: MAC address entries/filter
- IP Security: IP address security management to prevent unauthorized intruder
- Login Security: IEEE802.1X/RADIUS
- Provides EFT protection 3000 VDC for power line
- Query mode for Multi Media Application, Support multicast filter
- Support IEEE802.1d Spanning Tree, IEEE802.1w Rapid Spanning Tree
- X-Ring, Dual Homing and Couple Ring Topology
- Provide redundant backup feature and the recovery time below 20ms
- Support 802.1ab LLDP
- Ingress Packet Filter and Egress Rate Limit
- Broadcast/Multicast/Flooded Unicst Packet Filter Control
- System Event Log
- SNMP Trap: Device cold start, Authentication failure, Port Link up/Link down, PoE port events
- TFTP Firmware Update and System Configure Restore and Backup

- Supports 6000 VDC Ethernet ESD protection

Specification

Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX/ 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 • IEEE 802.1x User Authentication (Radius) • IEEE802.1ab LLDP
Switch Architecture	<ul style="list-style-type: none"> • Back-plane (Switching Fabric): 5.6Gbps • Packet throughput ability(Full-Duplex): 8.3Mpps @64bytes
Transfer Rate	<ul style="list-style-type: none"> • 14,880pps for Ethernet port • 148,800pps for Fast Ethernet port • 1,488,000pps for Gigabit Fiber Ethernet port
Memory Buffer	<ul style="list-style-type: none"> • 1Mbits built-in
Mac Address	<ul style="list-style-type: none"> • 8K MAC address table
Flash ROM	<ul style="list-style-type: none"> • 4Mbytes
DRAM	<ul style="list-style-type: none"> • 32Mbytes
Interface	<ul style="list-style-type: none"> • 10/100TX: 8* RJ-45 • 10/100/1000T/SFP Combo: 2* RJ-45 + 2* 100/1000 SFP sockets • RS-232 connector: RJ-45 type
PoE pin assignment	<ul style="list-style-type: none"> • RJ-45 port 1~8 support IEEE 802.3af End-Span, Alternative A mode • Per port provides 15.4W ability • Positive (VCC+): RJ-45 pin 1, 2, Negative (VCC-): RJ-45 pin 3, 6
Protocol	<ul style="list-style-type: none"> • CSMA/CD
LED	<ul style="list-style-type: none"> • Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Red), Master (Green), FWD (Green) • 8 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow) • SFP port: LNK/ACT(Green), 1000T: LNK/ACT(Green), 1000M(Green)
SNMP	<ul style="list-style-type: none"> • SNMP v1 v2c, v3/ Web/Telnet/CLI • RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643 , RFC 1757, RSTP MIB, Private MIB, LLDP MIB
VLAN	<ul style="list-style-type: none"> • Port Based VLAN 256 entries • IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4094.) • GVRP (256 Groups)
Port Trunk with LACP	<ul style="list-style-type: none"> • LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk members
LLDP	<ul style="list-style-type: none"> • Support LLDP to allow switch to advise its identification and capability on the LAN
Spanning Tree	<ul style="list-style-type: none"> • Support IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree
X-Ring	<ul style="list-style-type: none"> • Support X-ring, Dual Homing and Couple Ring Topology • Provide redundant backup feature and the recovery time below 20ms
QoS	<ul style="list-style-type: none"> • The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Different Service
CoS	<ul style="list-style-type: none"> • Support IEEE802.1p class of service, per port provides 4 priority queues
Port Security	<ul style="list-style-type: none"> • Support 50 entries of MAC address for static MAC and another 50 for

	MAC filter
Port Mirror	<ul style="list-style-type: none"> Support 3 mirroring types: "RX, TX and Both packet"
IGMP	<ul style="list-style-type: none"> Support IGMP snooping v1,v2 256 multicast groups and IGMP query Support 50 entries for multicast filter
IP Security	<ul style="list-style-type: none"> Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder
Login Security	<ul style="list-style-type: none"> Support IEEE802.1X Authentication/RADIUS
Bandwidth Control	<ul style="list-style-type: none"> Support ingress packet filter and egress packet limit The egress rate control supports all of packet type and the limit rates are 100K~102400Kbps(10/100), 100K~256000Kbps(1000) 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 from 100K~102400Kbps(10/100), 100K~256000Kbps(1000)
Flow Control	<ul style="list-style-type: none"> Support Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	<ul style="list-style-type: none"> Support System log record and remote system log server
SMTP	<ul style="list-style-type: none"> Support SMTP Server and 6 e-mail accounts for receiving event alert
Relay Alarm	<ul style="list-style-type: none"> Provides one relay output for port breakdown, power fail and alarm Alarm Relay current carry ability: 1A @ DC24V
SNMP Trap	<ul style="list-style-type: none"> 1. Cold start, 2. Link up/down, 3. X-Ring topology changed 4. Authorization fail, 5. PD disconnect trap-PoE port event
DHCP	<ul style="list-style-type: none"> Provide DHCP Client/ DHCP Server/ Port and IP Binding
DNS	<ul style="list-style-type: none"> Provide DNS client feature and support Primary and Secondary DNS server
SNTP	<ul style="list-style-type: none"> Support SNTP to synchronize system clock in Internet
Firmware Update	<ul style="list-style-type: none"> Support TFTP firmware update, TFTP backup and restore
Configuration upload and download	<ul style="list-style-type: none"> Support binary format configuration file for system quick installation
ifAlias	<ul style="list-style-type: none"> Each port allows importing 128bit of alphabetic string of word on SNMP and CLI interface
Case	<ul style="list-style-type: none"> IP-30
Installation	<ul style="list-style-type: none"> Provide DIN rail kit and wall mount ear for wall mount or DIN-type cabinet install
PoE Power Budget	<ul style="list-style-type: none"> 142Watts Max. @ 48VDC (Full loading with PoE)
Power Supply	<ul style="list-style-type: none"> External Power Supply: DC 48V, Redundant power DC 48V and connective removable terminal block for master and slave power
Environment	<ul style="list-style-type: none"> Wide Operating Temperature: -40°C~75°C Operating Humidity: 5% to 95% (Non-Condensing)
Dimension	<ul style="list-style-type: none"> 72 * 105 * 152 mm
EMI	<ul style="list-style-type: none"> FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN-61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Safety	<ul style="list-style-type: none"> UL, cUL, CE/EN60950-1
Stability Testing	<ul style="list-style-type: none"> IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

Ordering information

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