

IPES-2204F

4 10/100TX PoE at/af + 2 100SFP Smart Industrial Ethernet Switch w/Pro-Ring 2se

- Pro-Ring 2se covers Single-Ring Topology
- Pro-Ring 2se provides Ring recovery time of less than
 10ms for up to 50 switches in one Ring
- Built-in 4port PoE injectors feeding up to 30W per port
- Advanced PoE Management including of scheduling and detection
- Wide operating temperature range from -40°C to 75°C(E model)













OVERVIEW

The Lantech IPES-2204F is a Smart Redundant Ring Ethernet switch with 4 IEEE 802.3at/af High Power PoE + 2 100M SFP ports Industrial Switch. It can be configured easily via web-browser, SNMP.

With smart and easy management functions including Port based VLANs, RSTP/STP and Pro-Ring2se, a self-recovery ring protocol operating in less than 10ms (for up to 50 switches), the IPES-2204F can protect your mission-critical applications from network interruptions or temporary malfunctions. In the case of a power-down, port-down or CPU overload event, IPES-2204F can send SNMP traps and alert emails to 6 pre-defined addresses, and trigger an alarm via the relay contact connection.

The IPES-2204F supports 4 PoE ports meeting with IEEE802.3at/af standard where can feed HI-power up to 30W at each PoE port for big power consumption

devices like PTZ IP camera, High power wireless AP etc. The IPES-2204F-12V is able to receive 12/24V input and boost to 48V output for PoE feeding for 80W(12V) or 120W(24V) budget in vehicle use.

The IPES-2204F is designed to meet the demands of Industrial environments, comes packaged in a robust IP30 housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability test requirements, which ensure long term reliability in critical industrial environments. The IPES-2204F can be used in extreme environments with an operating temperature range of -40°C~75°C / -40°F~167°F(E model) The Lantech IPES-2204F is the best choice for building automation, factory, and process automation applications.

FEATURES & BENEFITS

- System Interface/Performance
 - · 4x10/100 PoE at/af+ 2 100M SFP
 - · 2K MAC Address Table
 - Redundant Power Supply Design for DC(48V~56VDC)
 or DC (9.5V~60VDC) for 12V model
 - Wide operating temperature range from -40 ℃~75 ℃ / -40 F~167 F(-E model)
- PoE budget 80W for 12V input; 120W for 24V/48V/54V input
- PoE management including PoE detection and scheduling for PD (power devices)
- CPU Load Display and overload alert event
- Pro-Ring2se covers Single Ring
- Pro-Ring2se povides a recovery time of less than 10ms for a ring of up to 50 switches
- RSTP/STP (IEEE 802.1Ss/w/D) for Ethernet Redundancy
- Supports IEEE802.1ab LLDP
- DHCP client supported
- Port based VLANs

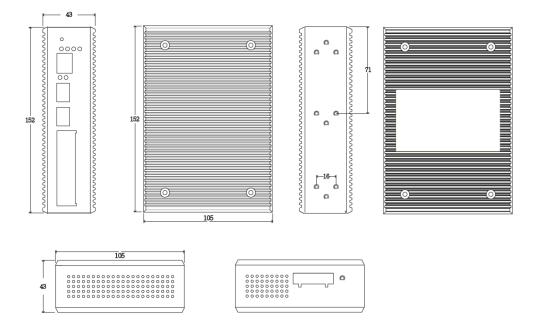


■ Security

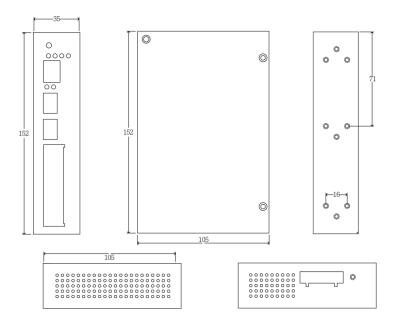
- Port Security: Loopback protection to proven loop condition and corrupt ether cable
- IP Security: 10 IP address access pemission management to prevent unauthorized intruder.
- · Disable/enable Web MMI via console/Telnet
- Multiple notifications of events by emails and traps
- Web-based, SNMP V1/V2c/V3 Management.
- TFTP/HTTP Firmware upgrade
- Reset / Factory default button to restore factory setting
- IP-30 enclosure with DIN-Rail and wall-mounting design

DIMENSIONS (unit=mm)

12V model



48V model





SPECIFICATION

| Standards | IEEE 802.3 for 10Base-T. | Overload Current | Present |
|--------------------|--|--------------------|---|
| Stariuarus | IEEE 802.3u for 100Base-T(X) and 100Base-FX, | Protection | |
| | IEEE 802.3x for Flow control | LED | Power Indicator |
| | IEEE 802.1D for STP | | Green LED x 2 |
| | IEEE 802.1w for RSTP | | 10/100Base-T(X) RJ45 port indicator |
| | IEEE 802.1AB for LLDP | | Green for port Link/Act. Amber for Duplex/Collision |
| | IEEE 802.3at / af Power over Ethernet | | 100Base-FX SFP port indicator |
| Connectors | 10/100TX: 4 x RJ-45 with auto MDI/MDI-X function | | Green for port Link/Act |
| | 2 x 100Base-FX SFP Port | | R.M. indicator |
| Mac Address | 2048 MAC addresses | | Green : Indicate system operated in Pro-Ring Master |
| Switch Properties | Switching bandwidth: 1.2Gbps | | mode |
| Processing | Store-and-Forward | | Pro-Ring indicator |
| Management | SNMP v1 v2c, v3/ Web | | Green : Indicate port operated in Pro-Ring mode |
| Security Features | Enable/disable port VLAN to segregate and secure | | Fault indicator |
| , | network traffic | | Amber : Indicate unexpected event occurred |
| Spanning Tree | Supports STP/RSTP (IEEE 802.1D/w) | Enclosure | IP-30 |
| SMTP | SMTP Server and 6 e-mail accounts for receiving | Dimension | 12V model: 43(W) x 105(D) x 152(H) mm |
| | event alert | | 48V model: 35(W) x 105(D) x 152(H) mm |
| SNTP | SNTP to synchronize system clock in Internet | Operating Humidity | 5% to 95% Non-condensing |
| SNMP trap | Available | Operating | -20°C~60°C / -4°F~140°F (Standard model) |
| System Event Log | Log Server/ SMTP / SNMP trap | Temperature | -40°C~75°C / -40°F~167°F (-E model) |
| Pro-Ring | Pro-Ring2se covers Single Ring Topology. Pro-Ring | Storage | -40°C~85°C / -40°F~185°F |
| | provides a recovery time of less than 10ms for up to | Temperature | |
| | 50 switches | EMI | FCC Part 15, CISPR (EN55022) class A |
| Firmware upgrade | TFTP/HTTP firmware upgradable | EMS | EN61000-4-2 (ESD), |
| Port Control & | Port configuration, status, statistics, monitoring, | | EN61000-4-3 (RS), |
| Security | security | | EN61000-4-4 (EFT), |
| | | | EN61000-4-5 (Surge), |
| | Able to set the state, speed/duplex, flow control, and | | EN61000-4-6 (CS), |
| | security of the port | | EN61000-4-8, |
| DHCP | DHCP Client | Ctobility Testing | EN61000-4-11 |
| VLAN | Port Based | Stability Testing | IEC60068-2-32 (Free fall) |
| DNS | Provide DNS client feature support Primary and | | IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration) |
| | Secondary DNS server | Warranty | 5 years |
| Input Power | 46~56VDC; 54V for PoE at | vvarianty | +Not suitable for multicast application |
| | 9.6~60VDC for 12V model | | +ivot suitable for multicast application |
| PoE Budget | 80W for 12V input; 120W for 24V/48V/54V input | | |
| Power | 3 Watts Max. | | |
| Consumption (Typ.) | | | |

ORDERING INFOMATION

- IPES-2204F-12V......P/N: 8350-133

4 10/100TX PoE at/af+ 2 100M SFP Smart Industrial Ethernet PoE Switch w/Pro-Ring2se; 12~48V input; -20°C~60°C



OPTIONAL ACCESSORIES

55VDC DIN Rail Power for 802.3at Applications

■ AD1240-48S-5 48~56VDC, 4.3A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp.

-20°C~50°C

(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

■ AD1360-48S-5 48~56VDC, 6.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp.

-20°C~50°C

(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

■ AD1500-48S-5 48~56VDC, 9A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Mini GBIC (SFP)

8330-060 100Base FX 2KM, Multi-mode, LC Transceiver
 8330-065 100Base FX 5KM, Multi-mode, LC Transceiver
 8330-061 100Base LX 30KM, Single-mode, LC Transceiver

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