

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)



12V model 48V 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~56VDC)for 12V model
- Wide operating temperature range from -40 C~-75 C / -40 F~-167 F(-E model)

■ PoE budget 80W for 12V input; 120W for 24V/48V input

■ PoE management including PoE detection and

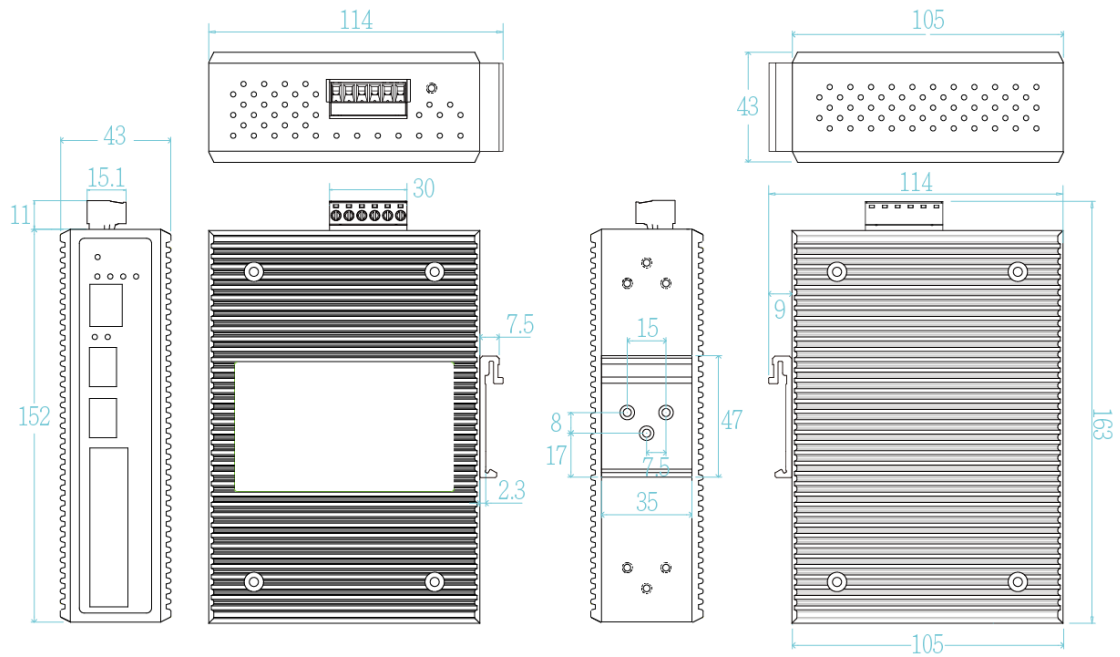
scheduling for PD (power devices)

- CPU Load Display and overload alert event
- Pro-Ring2se covers Single Ring
- Pro-Ring2se provides 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

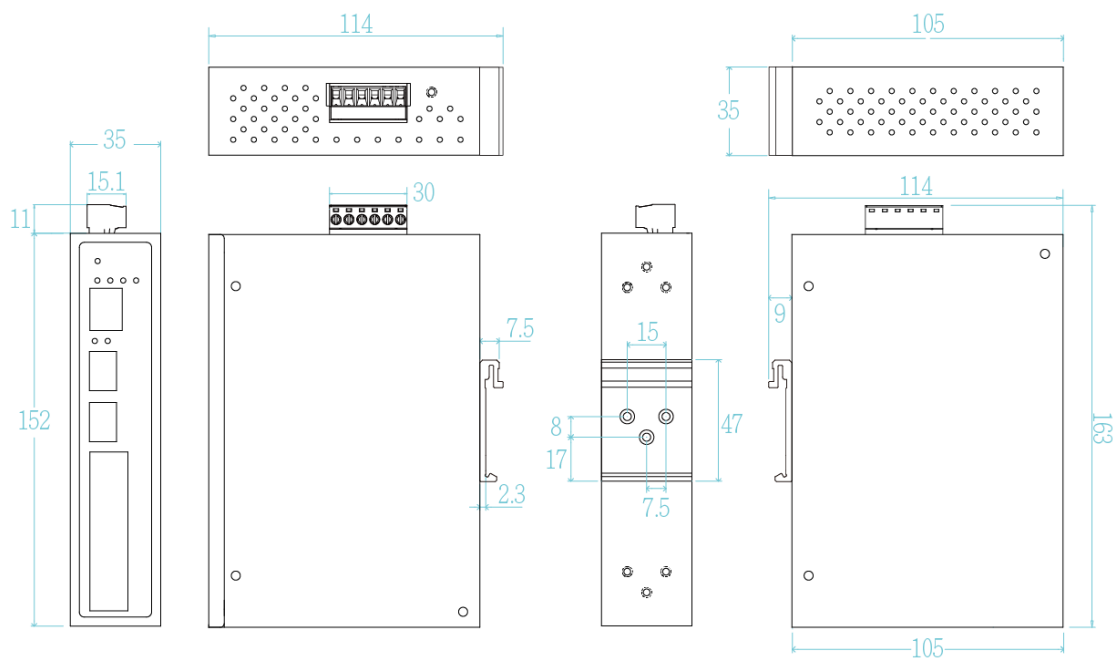
- *Port Security: Loopback protection to proven loop condition and corrupt ether cable*
- *IP Security: 10 IP address access permission management to prevent unauthorized intruder.*
- *Disable/enable Web MMI via console/Telnet*
- **Multiple notifications of events by emails and traps**
- **Web-based, 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, IEEE 802.3u for 100Base-T(X) and 100Base-FX, IEEE 802.3x for Flow control IEEE 802.1D for STP IEEE 802.1w for RSTP IEEE 802.1AB for LLDP IEEE 802.3at / af Power over Ethernet	Consumption (Typ.)		
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function 2 x 100Base-FX SFP Port	Overload Current Protection	Present	
Mac Address	2048 MAC addresses	LED Power Indicator Green LED x 2 10/100Base-T(X) RJ45 port indicator Green for port Link/Act. Amber for Duplex/Collision 100Base-FX SFP port indicator Green for port Link/Act R.M. indicator Green : Indicate system operated in Pro-Ring Master mode Pro-Ring indicator Green : Indicate port operated in Pro-Ring mode Fault indicator Amber : Indicate unexpected event occurred		
Switch Properties	Switching bandwidth: 1.2Gbps			
Processing	Store-and-Forward			
Management	SNMP v1 v2c, v3/ Web			
Security Features	Enable/disable port VLAN to segregate and secure network traffic			
Spanning Tree	Supports STP/RSTP (IEEE 802.1D/w)			
SMTP	SMTP Server and 6 e-mail accounts for receiving event alert		Enclosure	IP-30
SNTP	SNTP to synchronize system clock in Internet		Dimension	12V model: 43(W) x 105(D) x 152(H) mm 48V model: 35(W) x 105(D) x 152(H) mm
SNMP trap	Available		Operating Humidity	5% to 95% Non-condensing
System Event Log	Log Server/ SMTP / SNMP trap		Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E model)
Pro-Ring	Pro-Ring2se covers Single Ring Topology. Pro-Ring provides a recovery time of less than 10ms for up to 50 switches	Storage Temperature	-40°C~85°C / -40°F~185°F	
Firmware upgrade	TFTP/HTTP firmware upgradable	EMI	FCC Part 15, CISPR (EN55022) class A	
Port Control & Security	Port configuration, status, statistics, monitoring, security Able to set the state, speed/duplex, flow control, and security of the port	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8	
DHCP	DHCP Client	Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)	
VLAN	Port Based	Warranty	5 years	
DNS	Provide DNS client feature support Primary and Secondary DNS server	+Not suitable for multicast application		
Input Power	46~56VDC for 48V model 9.5~56VDC for 12V model			
PoE Budget	120W@48VDC ; 120W@24VDC ; 80W@12VDC			
Power	3 Watts Max.			

ORDERING INFORMATION

- **IPES-2204F-48V.....P/N: 8350-130**
4 10/100TX PoE at/af+ 2 100M SFP Smart Industrial Ethernet PoE Switch w/Pro-Ring2se; 48V input; -20°C~60°C
- **IPES-2204F-48V-E.....P/N: 8350-131**
4 10/100TX PoE at/af + 2 100M SFP Smart Industrial Ethernet PoE Switch w/Pro-Ring2se; 48V input; -40°C~75°C
- **IPES-2204F-12V.....P/N: 8350-133**
4 10/100TX PoE at/af+ 2 100M SFP Smart Industrial Ethernet PoE Switch w/Pro-Ring2se; 12/24/48V input; -20°C~60°C
- **IPES-2204F-12V-E.....P/N: 8350-134**
4 10/100TX PoE at/af + 2 100M SFP Smart Industrial Ethernet PoE Switch w/Pro-Ring2se; 12/24/48V input; -40°C~75°C

OPTIONAL ACCESSORIES

DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

- | | | | |
|-------------------|--|-------------------|--|
| ■ 8330-060 | MINI GBIC 100Base (LC/MM/2KM) Transceiver | ■ 8330-080 | 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver |
| ■ 8330-065 | MINI GBIC 100Base (LC/MM/5KM) Transceiver | ■ 8330-082 | 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver |
| ■ 8330-061 | MINI GBIC 100Base (LC/SM/30KM) Transceiver | ■ 8330-081 | 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver |
| ■ 8330-071 | 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver | ■ 8330-083 | 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver |
| ■ 8330-072 | 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver | ■ 8330-084 | 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver |
| ■ 8330-069 | 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver | ■ 8330-085 | 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver |
| ■ 8330-068 | 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver | | |

Lantech Communications Global, Inc.

www.lantechcom.tw
info@lantechcom.tw

© 2014 Copyright Lantech Communications Global Inc. all rights reserved.
The revise authority rights of product specifications belong to Lantech Communications Global Inc.
Lantech may make changes to specification and product descriptions at anytime, without notice.