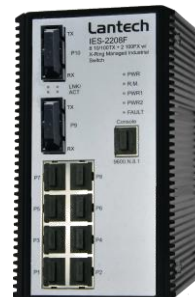


# IES-2208F

## 8 10/100TX + 2 100FX w/ Pro-Ring Managed Industrial Switch

- DNV Type Approval for Ships, Craft and Off-shore Platforms
- Wide operating temperature range from -40°C~75°C (-E model)
- Pro-Ring system covers X-Ring, Dual Homing, Couple Ring topology
- Wide range redundant power with polarity reverse protection



## OVERVIEW

The Lantech IES-2208F is an 8-port 10/100 Base-TX + 2-port 100FX Industrial Switch with managed functionality. It supports full SNMP features, including QoS for 4 queues, 801.q VLAN, IGMP snooping and query mode as well as Sntp and SMTP.

The Lantech IES-2208F supports Pro-Ring system, which includes X-Ring, the fast network recovery scheme in less than 10ms for up to 250 switches in a ring. Couple Ring and Dual-Homing are able to ensure network recovery protection between X-Ring groups. Dual homing is to back up the X-Ring groups when connect to upper layer or the core switch.

The IES-2208F 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.

The Lantech IES-2208F is the best to use in Industrial automation, Transportation, Semi-conductor factory, Heavy Industrial factory and other factory assembly lines. Furthermore, UL Class I Division II safety certification makes IES-2208F your best choice to be installed in inflammable environment where the liquid, gas and vapor etc might present the hazardous condition which generally to be found in mining, oil & gas, chemical, processing automation areas.

Lantech DNV-Type Approval IES-2208F-DNV model meets with the most critical test criteria in DNV Type test directives consisting of MED (Marine Equipment Directive), EMC (Electromagnetic Compatibility Directive) and LVD (Low Voltage Directive) in which vibration, high voltage, compass safe distance, salt mist tests, humidity etc are conducted to ensure the switch sustaining the harsh on-board environments often founded in Ships, Crafts and Offshore platforms.

## FEATURES & BENEFITS

- **System Interface/Performance**
  - RJ-45 port support Auto MDI/MDI-X Function
  - Store-and-Forward Switching Architecture
  - Back-plane (Switching Fabric): 1.6Gbps
  - 1Mbits Packet Buffer
  - 8K MAC Address Table
  - Wide operating temperature (-40°C~75°C)
- **Case/Installation**
  - IP-30 Protection with DIN Rail and Wall Mount Design
- **Power Supply**
  - Input Power Isolation design for Telecom application, Pass Hi-Pot test~1.5KV
  - Wide-range Redundant Power Design
  - Power Polarity Reverse Protect
- **Supports Spanning Tree & RSTP**
- **VLAN: Port Based VLAN, 802.1 Q Tag VLAN, GVRP**
- **Pro-Ring**
  - X-Ring, Dual Homing, Couple Ring Topology
  - Provides recovery time below 10ms
- **Port Trunk with LACP**
- **Support 802.1ab LLDP**
- **QoS (Quality of Service)**
  - Supports IEEE 802.1p Class of Service, Per port provides 4 priority queues
  - Port Base, Tag Base and Type of Service Priority
- **Bandwidth Control**
  - Ingress Packet Filter and Egress Rate Limit
  - Broadcast/Multicast Packet Filter Control
- **Port Mirror for monitoring traffic in switched networks**
- **System Event Log**
  - System Log Server/Client
  - SMTP e-mail Alert
  - Relay Alarm Output System Events
- **Security**
  - Port Security, IP Security, and Login Security
- **Supports IGMP Query mode for Multi Media Application**
- **TFTP Firmware Update and System Configure Restore and Backup**



Flow Control	Support Flow Control for Full-duplex and Back Pressure for Half-duplex	DNS	Provide DNS client feature and support Primary and Secondary DNS server.
System Log	Support System log record and remote system log server	SNTP	Support SNTP to synchronize system clock in Internet
SMTP	Support SMTP Server and 6 e-mail accounts for receiving event alert	Firmware Update	Support TFTP firmware update, TFTP backup and restore.
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm Alarm Relay current carry ability: 1A @ DC24V	Configuration upload and download	Support binary configuration file for system quick installation
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	ifAlias	Each port allows importing 128bit of alphabetic string of word on SNMP and CLI interface.
DHCP	Provide DHCP Client/ DHCP Server/ IP Relay functions		*Future Release **Optional

## ORDERING INFORMATION

- **IES-2208F-SC-MM.....P/N: 8350-410**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, MM, 2KM; (-20°C to 60°C)
- **IES-2208F-ST-MM.....P/N: 8350-412**  
8 10/100TX + 2 100FX Industrial Managed Switch, ST, MM, 2KM; (-20°C to 60°C)
- **IES-2208F-SC-SM.....P/N: 8350-415**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, SM, 30KM; (-20°C to 60°C)
- **IES-2208F-ST-SM.....P/N: 8350-414**  
8 10/100TX + 2 100FX Industrial Managed Switch, ST, SM, 30KM; (-20°C to 60°C)
- **IES-2208F-SC-MM-AC.....P/N: 8350-410-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, MM, 2KM; (-20°C to 60°C); 18~36VAC
- **IES-2208F-ST-MM-AC.....P/N: 8350-412-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, ST, MM, 2KM; (-20°C to 60°C); 18~36VAC
- **IES-2208F-SC-SM-AC.....P/N: 8350-415-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, SM, 30KM; (-20°C to 60°C); 18~36VAC
- **IES-2208F-SC-MM-E.....P/N: 8350-411**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, MM, 2KM; (-40°C to 75°C)
- **IES-2208F-ST-MM-E.....P/N: 8350-413**  
8 10/100TX + 2 100FX Industrial Managed Switch, ST, MM, 2KM; (-40°C to 75°C)
- **IES-2208F-SC-SM-E.....P/N: 8350-416**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, SM, 30KM; (-40°C to 75°C)
- **IES-2208F-SC-MM-E-AC.....P/N: 8350-411-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, MM, 2KM; (-40°C to 75°C); 18~36VAC
- **IES-2208F-ST-MM-E-AC.....P/N: 8350-413-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, ST, MM, 2KM; (-40°C to 75°C); 18~36VAC
- **IES-2208F-SC-SM-E-AC.....P/N: 8350-416-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, SM, 30KM; (-40°C to 75°C); 18~36VAC
- **IES-2208F-SC-MM-DNV.....P/N: 8350-419DNV**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, MM, 2KM; (-40°C to 75°C); DNV Approval  
\*Redundant power without polarity reverse protect function
- **IES-2208F-SC-SM-DNV.....P/N: 8350-418DNV**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, SM, 30KM; (-40°C to 75°C); DNV Approval  
\*Redundant power without polarity reverse protect function
- **IES-2208F-SC-MM-DNV-AC...P/N: 8350-419DNV-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, MM, 2KM; (-40°C to 75°C); DNV Approval; 18~36VAC  
\*Redundant power without polarity reverse protect function
- **IES-2208F-SC-SM-E-AC.....P/N: 8350-418DNV-AC**  
8 10/100TX + 2 100FX Industrial Managed Switch, SC, SM, 30KM; (-40°C to 75°C); DNV Approval; 18~36VAC  
\*Redundant power without polarity reverse protect function

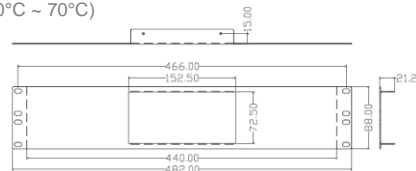
## OPTIONAL ACCESSORIES

### DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection 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 ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection 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 ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S** 48VDC, 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)
- **AD1120-48F** 48VDC, 2.5A, 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)

### Rack Mounting Kit

- **MBAK19001** 19" Rack Mounting Kit for 72x105x152mm Industrial Switch



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