

Product Data Sheet

Industrial Managed and Unmanaged Gigabit Ethernet Switches



LIG1014A



LIE1014A



LIG401A



LIE401A

Overview

The Industrial Managed and Unmanaged Gigabit Ethernet Switches include unmanaged switches that provide four (4) copper RJ-45 ports and one (1) multi-rate SFP slot and managed switches provide eight (8) and ten (10) copper RJ-45 ports and four (4) multi-rate SFP slots.

Power over Ethernet

The LIE401A and LIE1014A switches support Power over Ethernet compliant to the IEEE 802.3af and IEEE 802.3at standard on all copper ports. Thus these switches can be used to power standard PoE PD devices with up to 30 watts per port along with the Ethernet data on standard Ethernet Cabling.

Multi-rate SFP slots

The benefit of having multi-rate SFP slots is to be able to use 100-Mbps and 1-Gbps SFP Modules for either multi- or single-mode in a mix and match as needed. If requirements change, just replace the SFP module and protect your switch investment.

Power

The switches are powered from 12- to 58-VDC. The PoE models need 48 VDC for 802.3af and a minimum of 53 VDC for 802.3at.

Extended temperature range

All models are tested and released for operating temperatures from -40° up to +75° Celsius. They passed shock, vibration and freefall test and comply with the IEC60068-2-6, -27 and -32 standards.

Management

The switches offer powerful features including Layer 3 routing and management with all advanced filter and multicast algorithms needed today to easily prioritize, partition, and organize a reliable high-speed network.

Basic Features

- Unmanaged models offer (4) 10/100/1000 plus (4) multi-rate SFPs.
- Managed models provide (8) or (10) 10/100/1000 plus (1) multi-rate SFP.
- Models with Power over Ethernet Plus deliver 30 watts power per port to remote PD devices.
- Extended temperature range: -40° to +75°C.
- L2 wire speed switching.
- 12 to 58V DC dual input, reverse polarity.
- IP30 industrial design.
- DIN-rail mountable.
- Shock, vibration and freefall test to IEC60068-2-6, -27, -32.
- EMC approval acc. to IEC61000-4-2, -3, -4, -5, -6 (Level 3).

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Specifications for LIG401A

Approvals	
Standards	UL508/CSA C22, EN61010-1, CE, FCC Part 15, CISPR22 (EN55022) Class A IEC60068-2-6, -27, -32 (Vibration, Shock, Free Fall), MTBF > 25 years IEC61000-4-2, -3, -4, -5, -6 (Level 3)
Firmware	
MAC Address	2000 MAC Addresses
Frame Size	9000 Bytes (Jumbo frame capable)
Buffer Memory	128 kbytes
Hardware	
Chassis	IP30
Connectors	(4) RJ-45, 10/100/1000 Mbps speed auto-negotiation, MDI-MDI-X auto-crossover; (1) 100/1000BASE-SFP module slot
Dimensions (without DIN rail clip)	4.4"H x 1.1"W x 3.5"D (11.2 x 2.9 x 8.9 cm)
Weight	0.70 lb. (0.32 kg)
Installation Options	DIN-rail mounting; Wallmounting
Power	
PoE	No
Input	Redundant input terminals, reverse power protection
Input Voltage	12–58 VDC
Environmental	
Operating Temperature	-40 to +167° F (-40 to +75° C), cold startup at -40° C
Storage Temperature	-40 to +185° F (-40 to +85° C)
Humidity	5 to 95% RH (non-condensing)

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Specifications for LIE401A

Approvals	
Standards	UL508/CSA C22, EN61010-1, CE, FCC Part 15, CISPR22 (EN55022) Class A, IEC60068-2-6, -27, -32 (Vibration, Shock, Free Fall), MTBF >25 years, IEC61000-4-2, -3, -4, -5, -6 (Level 3)
Firmware	
MAC Address	2000 MAC Adresses
Frame Size	9000 Bytes (Jumbo frame capable)
Buffer Memory	128 kbytes
Hardware	
Chassis	IP30
Connectors	(4) RJ-45, IEEE 802.3at PoE PSE ports, 10/100/1000 Mbps speed auto-negotiation, MDI-MDI-X auto-crossover; (1) 100/1000BASE-SFP module slot
Dimensions (without DIN rail clip)	5.4"H x 1.1"W x 4.2"D (13.9 x 2.9 x 10.7 cm)
Weight	1 lb. (0.46 kg)
Installation Options	DIN-rail mounting; Wallmounting
Power	
PoE	Yes
Input	Redundant input terminals, reverse power protection
Input Voltage	12–58 VDC, 54–58 V for PoE+, 48–58 V for PoE
Environmental	
Operating Temperature	-40 to +167° F (-40 to +75° C), cold startup at -40° C
Storage Temperature	-40 to +185° F (-40 to +85° C)
Humidity	5 to 95% RH (non-condensing)

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Specifications for LIG1014A

Approvals	
Standards	UL508/CSA C22, EN61010-1, CE, FCC Part 15, CISPR22 (EN55022) Class A, IEC60068-2-6, -27, -32 (Vibration, Shock, Free Fall), MTBF >25years, IEC61000-4-2, -3, -4, -5, -6 (Level 3)
Features	Web, SNMP v1/v2c, Telnet, HTTPS, SSH, Radius, TFTP/FTP, Syslog, VLAN, Diagnostic Tools, RMON 1,2,3,9, DHCP, Client/Server/Snooping/Relay/Option82, QoS, IGMP Proxy/Snooping v1/v2, Filter Features, LLDP, STP, RSTP, MSTP, LACP
Firmware	
MAC Address	8000 MAC Addresses
Frame Size	9000 Bytes (Jumbo frame capable)
Buffer Memory	512 kbytes
Hardware	
Chassis	IP30
Connectors	(10) RJ-45, 10/100/1000 Mbps speed auto-negotiation, MDI-MDI-X auto-crossover, (4) 100/1000BASE-SFP module slot
Ingress protection	IP30
Dimensions (without DIN rail clip)	6.0"H x 2.4"W x 4.3"D (15.4 x 6 x 10.9 cm)
Weight	2.4 lb. (1.1 kg)
Installation Options	DIN-rail mounting; Wallmounting
Power	
PoE	No
Input	Redundant input terminals, reverse power protection, 12 – 58 VDC
Maximum Power	11 Watts
Environmental	
Operating Temperature	-40 to +167° F (-40 to +75° C), cold startup at -40° C
Storage Temperature	-40 to +185° F (-40 to +85° C)
Humidity	5 to 95% RH (non-condensing)

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Specifications for LIE1014A

Approvals	
Standards	UL508/CSA C22, EN61010-1, CE, FCC Part 15, CISPR22 (EN55022) Class A, IEC60068-2-6, -27, -32 (Vibration, Shock, Free Fall), MTBF > 25years, IEC61000-4-2, -3, -4, -5, -6 (Level 3)
Features	Web, SNMP v1/v2c, Telnet, HTTPS, SSH, Radius, TFTP/FTP, Syslog, VLAN, Diagnostic Tools, RMON 1,2,3,9, DHCP Client/Server/Snooping/Relay/Option82, QoS, IGMP Proxy/Snooping v1/v2, Filter Features, LLDP, STP, RSTP, MSTP, LACP
Firmware	
MAC Address	8000 MAC Addresses
Frame Size	9000 Bytes (Jumbo frame capable)
Buffer Memory	512 kbytes
Hardware	
Chassis	IP30
Connectors	(8) RJ-45, IEEE 802.3at PoE PSE ports, 10/100/1000 Mbps speed auto-negotiation, MDI-MDI-X auto-crossover; (4) 100/1000BASE-SFP module slot
Dimensions (without DIN rail clip)	6.1"H x 3.0"W x 5.0"D (15.4 x 7.7 x 12.8 cm)
Weight	3.1 lb. (1.4 kg)
Installation Options	DIN-rail mounting; Wallmounting
Power	
PoE	Yes
Input	Redundant input terminals, reverse power protection, 12 –58 VDC, 54–58 VDC for PoE+, 48–58 VDC for PoE
Maximum Power	Without PoE: 14 Watts, With PoE: 265 Watts
Environmental	
Operating Temperature	-40 to +167° F (-40 to +75° C), cold startup at -40° C
Storage Temperature	-40 to +185° F (-40 to +85° C)
Humidity	5 to 95% RH (non-condensing)

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Ordering Information

Item	Code
Industrial Managed Gigabit Ethernet Switch Standard With PoE+	LIG1014A LIE1014A
Industrial Unmanaged Gigabit Ethernet Switch Standard With PoE+	LIG401A LIE401A

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