

DATA SHEET

LIE402A

802.3BT 60 W POE++ GIGABIT INDUSTRIAL UNMANAGED SWITCH

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

802.3BT 60 W POE++ GB INDUSTRIAL UNMANAGED SWITCH (LIE402A) DATA SHEET

INTRODUCTION

The LIE402A is an industrial unmanaged Ethernet switch that features two SFP uplink ports and four 10/100/1000 RJ-45 Power-over-Ethernet (PoE) ports.

NOTE: SFPs are ordered separately.

FEATURES

- TWO SFP AND FOUR RJ-45 PORTS
- SUPPORTS IEEE 802.3AF POE (15.4 W), IEEE 802.3AT POE+ (30W), OR IEEE 802.3BT POE++ (60W) PER RJ-45 PORT
- PROVIDES FULL POE++ POWER SIMULTANEOUSLY TO ALL ETHERNET
- CONFIGURABLE POE POWER RESET
- SUPPORTS TWISTED-PAIR AND FIBER SFP TRANSCEIVERS
- INCLUDES FIBER REDUNDANCY
- DUAL DEVICE MODE ENABLES THE SWITCH TO OPERATE AS TWO SEPARATE SWITCHES
- DIRECTED SWITCH MODE PREVENTS PORT FLOODING
- SUPPORTS JUMBO FRAMES UP TO 10,240 BYTES
- ISOLATED SINGLE OR DUAL DC POWER FOR REDUNDANCY
- DIN-RAIL MOUNTABLE WITH INCLUDED CLIP
- FANLESS DESIGN FOR LONG LIFE AND VIBRATION RESISTANCE
- OPERATES AT -40 TO +167° F (-40 TO +75° C)

PHOTOS/WHAT'S INCLUDED

802.3BT 60 W POE++ GB INDUSTRIAL UNMANAGED SWITCH (LIE402A)



WHAT'S INCLUDED WITH THE LIE402A

- (1) LIE402A INDUSTRIAL UNMANAGED SWITCH
- (1) ±46 TO ±57 VDC POWER ADAPTER

NOTE: SFPs are ordered separately. See chart on page 4.

IEEE SPECIFICATIONS

IEEE Specifications			
Description	802.3af PoE	802.3at PoE+	802.3.bt PoE++ Type 3
Power available at PD	12.95 watts	25.5 watts	51 watts
Max. power delivered by PSE	15.4 watts	30.0 watts	60 watts
Voltage range at PSE	44.0 to 57.0 VDC	50.0 to 57.0 VDC	50.0 to 57.0 VDC
Voltage range at PD	37.0 to 57.0 VDC	42.5 to 57.0 VDC	42.5 to 57.0 VDC



SPECIFICATIONS

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SPECIFICATIONS FOR LIE402A	
STANDARD COMPLIANCES	IEEE 802.3, IEEE 802.3af (15.40 watts max) IEEE 802.3at (30 watts max) IEEE 802.3bt (60 watts max)
ENVIRONMENTAL	REACH, RoHS, and WEEE
POE MODES	IEEE Alternate A (Alt A) 4-Pair
FRAME SIZE	Up to 10,240 bytes
DC POWER REQUIREMENTS	+46 to +57 VDC; inclusive of tolerance 4.46A @ 56 VDC 2 Pin Terminal (non-isolated)
DIMENSIONS	5.5" H x 1.5" W x 5.5" D (13.9 x 3.8 x 13.9 cm)
WEIGHT	1.70 lb. (0.77 kg)
OPERATING TEMPERATURE	Industrial: -40 to +167° F (-40 to +75° C) Storage: -40 to +176° F (-40 to +80° C)
HUMIDITY	5 to 95% (non-condensing)
ALTITUDE	-328 to +13,123 ft. (-100 to +4,000 m) (operational)
MTBF (HOURS)	273,000
REGULATORY COMPLIANCES	<p>Safety: UL-60950-1, UL-62368-1, IEC 60950-1:2005+A1 :2009, IEC 62368:2014/A11:2017, EN 60950-1: 2006+A11:2009+A1:2010+A12:2011+A2:2013, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1-14, CE Mark</p> <p>EMC: EN 55032/EN 55024 CE Emissions/Immunity, IEC 61000-6-4 Industrial Emissions, IEC 61000-6-2 Industrial Immunity</p> <p>EMI: CISPR 32, FCC 47 Part 15 Subpart B Class A</p> <p>EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV, IEC 61000-4-6 CS: Signal: 10 V, IEC 61000-4-8 (Magnetic Field), IEC 61000-4-11 (General Immunity in Industrial Environments)</p> <p>IP Rating: IP40 Protection</p>



COMPATIBLE SFPS

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COMPATIBLE TWISTED-PAIR AND FIBER SFPS		
PART NUMBER	DESCRIPTION	DISTANCE
100-MBPS CONNECTIONS		
LFP401	SFP, 155-Mbps, Extreme Temperature, 850 nm Multimode Fiber, 2 km, LC	2 km
LFP402	SFP, 155-Mbps, Extreme Temperature, 1310 nm Multimode Fiber, 2 km, LC	2 km
LFP403	SFP, 155-Mbps, Extreme Temperature, 1310 nm Singlemode Fiber, 30 km, LC	30 km
1000-MBPS CONNECTIONS		
LFP411	SFP, 1.25-Gbps, Extreme Temperature, 850 nm Multimode Fiber, 550 m, LC	550 m
LFP412	SFP, 1.25-Gbps, Extreme Temperature, 1310 nm Multimode Fiber, 2 km, LC	2 km
LFP413	SFP, 1.25-Gbps, Extreme Temperature, 1310 nm Singlemode Fiber, 10 km, LC	10 km
LFP414	SFP, 1.25-Gbps, Extreme Temperature, 1310 nm Singlemode Fiber, 40 km, LC	40 km
LFP415	SFP, 1.25-Gbps, Extreme Temperature SFP with Extended Diagnostics ,Copper RJ-45, SerDes, 100 m	100 m
LFP416	SFP, 1.25-Gbps, Extreme Temperature SFP with Extended Diagnostics, Copper RJ-45, SGMII, 100 m	100 m
LFP420	SFP, 1.25-Gbps, Extreme Temperature, 1550/1310 nm Singlemode Simplex Fiber, 10 km, LC	10 km
LFP421	SFP, 1.25-Gbps, Extreme Temperature, 1310/1550 nm Singlemode Simplex Fiber, 10 km, LC	10 km
LFP441	SFP, 1.25-Gbps, 850nm Multimode Fiber, 550 m, LC	550 m
LFP442	SFP, 1.25-Gbps, 1310nm Singlemode Fiber, 20 km, LC	20 km
LFP443	SFP, 1.25-Gbps, Copper RJ-45, 100 m, SGMII, 100 m	100 m



