

# DATA SHEET

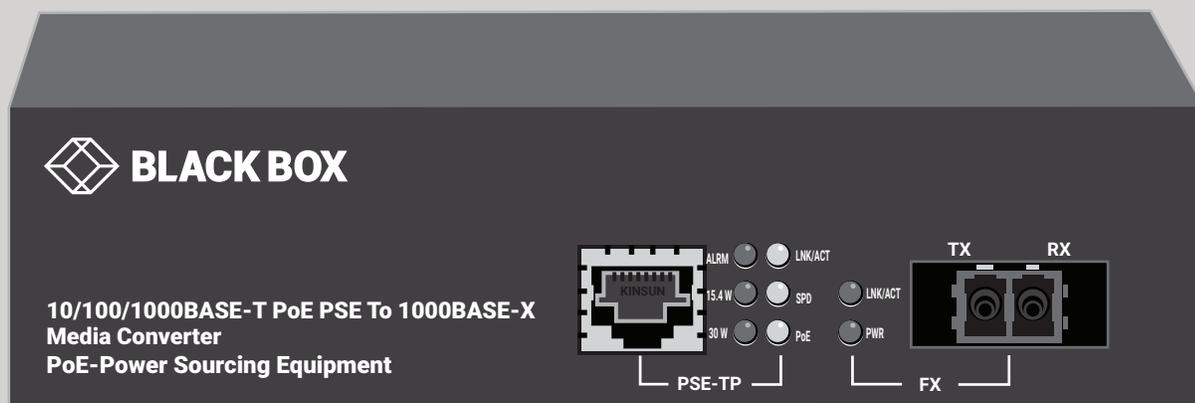
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LPS500A-MM-LC-R3, LPS500A-MM-SC-R3, LPS500A-SM-10K-LC-R3

# 10/100/1000B-T POE PSE TO 1000B-X MEDIA CONVERTER

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24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT [BLACKBOX.COM](http://BLACKBOX.COM)



# OVERVIEW

## POE PSE MEDIA CONVERTER DATA SHEET

### INTRODUCTION

The unmanaged PoE PSE Media Converter is a next generation Ethernet converter offering one gigabit per second performance. It is used in Ethernet copper to fiber media conversion applications over long distances.

The media converter delivers one (10M/100M/1G) RJ-45 with one PoE port (supports 802.3 af/at up to 30 W) and one GbE SC or LC port. The converter provides high hardware performance and environment flexibility for Ethernet applications.

Three models are available:

- LPS500A-MM-LC-R3: TP to Multimode Fiber Media Converter with RJ-45 and LC connectors
- LPS500A-MM-SC-R3: TP to Multimode Fiber Media Converter with RJ-45 and SC connectors
- LPS500A-SM-10K-LC-R3: TP to Singlemode Fiber Media Converter with RJ-45 and SC connectors

### FEATURES

- RJ-45 LINK SUPPORTS IEEE 802.3AB 1000BASE-T GBPS ETHERNET OVER TWISTED-PAIR CABLE
- FIBER LINK SUPPORTS IEEE 802.3Z 1000BASE-X GBPS ETHERNET OVER FIBEROPTIC CABLE
- PROVIDES IEEE 802.3AT MAXIMUM 30 W POWER OVER ETHERNET (POE)
- DIP SWITCH SETS POE, LFP, AND NORMAL/CUT-THROUGH CONFIGURATIONS
- POWER OVER ETHERNET (POE): THE POE CONVERTER PROVIDES POE POWER AND SUPPORTS VARIOUS POE PD DEVICE TYPES (E.G. IP-PHONE, IP-CAMERA, WIFI-AP) FOR END USERS TO SAVE ELIMINATE AN EXTRA POWER CABLE TO THESE DEVICES.
- LINK FAULT PASS-THROUGH (LFP): WHEN LINK FAULT PASS-THROUGH IS ENABLED, THE UTP RECEIVER IS PASSED TO THE FIBER TRANSMITTER TO MAKE THE MEDIA CONVERTER APPEAR TRANSPARENT TO THE END DEVICES THAT ARE CONNECTED. IT USES LINK FAULT PASS-THROUGH TO INDICATE WHEN FAR-END FAULT ISSUES OCCUR. IF A FAULT OCCURS, THE END DEVICES INDICATE A FAILURE FOR TROUBLESHOOTING.

## COMPARISON CHART

SPECIFICATION COMPARISON CHART			
	LPS500A-MM-LC-R3	LPS500A-MM-SC-R3	LPS500A-SM-10K-LC-R3
TWISTED-PAIR CONNECTOR	RJ-45	RJ-45	RJ-45
FIBER CONNECTOR	LC	SC	LC
FIBER TYPE	MULTIMODE	MULTIMODE	SINGLEMODE
MAXIMUM DISTANCE	550 M	550 M	10 KM
POE	YES	YES	YES
LFP	YES	YES	YES
MAXIMUM POE POWER	30 W	30 W	30 W



# SPECIFICATIONS

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POE PSE MEDIA CONVERTERS SPECIFICATIONS	
<b>HARDWARE</b>	
<b>CONNECTORS</b>	LPS500A-MM-LC-R3: (1) RJ-45 PoE; (1) multimode LC LPS500A-MM-SC-R3: (1) RJ-45 PoE; (1) multimode SC LPS500A-SM-10K-LC-R3: (1) RJ-45 PoE; (1) singlemode LC
<b>INDICATORS</b>	(8) LEDs: (1) FX Link/Act (green), (1) Power (green) , (1) TP Link/Act (green), (1) TP SPD (green/yellow), (1) PoE (green, red), (1) Alarm (red), (1) 15.4 W (green), (1) 30 W (green)
<b>USER CONTROLS</b>	(1) 3-position DIP switch: S1-1: PoE/PoE DIS, S1-2: LFP/LFP DIS, S1-3: Normal (bridge mode) or cut-through mode
<b>MOUNTING TYPE</b>	Wallmount
<b>DIMENSIONS</b>	6.22" H x 1.57" W x 5.23" D (15.8 x 4 x 13.3 cm)
<b>WEIGHT</b>	<2.2 lb. (<1 kg)
<b>PERFORMANCE</b>	
<b>FORWARDING CAPACITY</b>	2.98 Mpps
<b>SWITCHING CAPACITY</b>	2 Gbps
<b>JUMBO FRAMES</b>	9216 Bytes
<b>CABLES</b>	
<b>UTP</b>	UTP Cables: CAT5 or above UTP Cable Limitations: Max. length up to 328 ft. (100 m)
<b>FIBER OPTIC</b>	Fiber Cables: 1000BASE-SX: 50/125, 62.5/125, or 100/140- $\mu$ m Multimode 1000BASE-LX: 8.3/125, 8.7/125, 9/125, or 10/125- $\mu$ m Singlemode
<b>MAXIMUM DISTANCE</b>	LPS500A-MM-LC-R3, LPS500A-MM-SC-R3: 550 m; LPS500A-SM-10K-LC-R3: 10 km
<b>POWER</b>	
<b>PRIMARY POWER SUPPLY</b>	Requirement: 100 to 240 VAC, 47 to 63 Hz; Consumption: Up to 65 W
<b>POE POWER CAPACITY</b>	Available power: 30 W; Number of ports that support PoE: (1) PoE port supports PoE within available PoE power
<b>ENVIRONMENTAL</b>	
<b>TEMPERATURE</b>	Operating: 32 to 122° F (0 to 50° C); Storage: -4 to +158° F (-20 to +70° C)
<b>HUMIDITY</b>	Operating: 5 to 95% noncondensing
<b>ALTITUDE</b>	<3000 m (<10000 ft.)
<b>REGULATORY COMPLIANCE</b>	
<b>EMI</b>	FCC Part 15 Class A and CE Mark Approval; LVD EN 62368-1
<b>SAFETY</b>	EN62368-1



