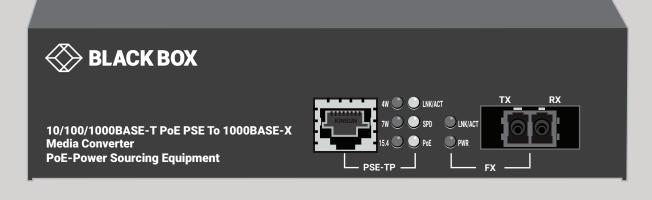
# DATA SHEET

LPS500A-MM-LC-R2, LPS500A-MM-SC-R2, LPS500A-SM-10K-LC-R2

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

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





#### 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 up to 15.4 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-R2: TP to Multimode Fiber Media Converter with RJ-45 and LC connectors
- LPS500A-MM-SC-R2: TP to Multimode Fiber Media Converter with RJ-45 and SC connectors
- LPS500A-SM-10K-LC-R2: 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 802.3AF MAXIMUM 15.4 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.

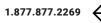
### **COMPARISON CHART**

SPECIFICATION COMPARISON CHART				
	LPS500A-MM-LC-R2	LPS500A-MM-SC-R2	LPS500A-SM-10K-LC-R2	
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	15.4 W	15.4 W	15.4 W	



#### POE PSE MEDIA CONVERTER DATA SHEET

POE PSE MEDIA CONVERTERS SPECIFICATIONS			
HARDWARE			
CONNECTORS	LPS500A-MM-LC-R2: (1) RJ-45 PoE; (1) multimode LC LPS500A-MM-SC-R2: (1) RJ-45 PoE; (1) multimode SC LPS500A-SM-10K-LC-R2: (1) RJ-45 PoE; (1) singlemode LC		
INDICATORS	(8) LEDs: (1) FX Link/Act (green), (1) TP Link/Act (green), (1) TP SPD (green/yellow), (1) Power (green) , (1) PoE (green, red), (1) 4 W (green), (1) 7 W (green), (1) 15.4 W (green)		
USER CONTROLS	(1) 3-position DIP switch: S1-1: PoE/PoE DIS, S1-2: LFP/LFP DIS, S1-3: Normal (bridge mode) or cut-through mode		
MOUNTING TYPE	Wallmount		
DIMENSIONS	6.22" H x 1.57" W x 5.23" D (15.8 x 4 x 13.3 cm)		
WEIGHT	<2.2 lb. (<1 kg)		
PERFORMANCE			
FORWARDING CAPACITY	2.98 Mpps		
SWITCHING CAPACITY	2 Gbps		
JUMBO FRAMES	9216 Bytes		
CABLES			
UTP	UTP Cables: CAT5 or above UTP Cable Limitations: Max. length up to 328 ft. (100 m)		
FIBER OPTIC	Fiber Cables: 1000BASE-SX: 50/125, 62.5/125, or 100/140-µm Multimode 1000BASE-LX: 8.3/125, 8.7/125, 9/125, or 10/125-µm Singlemode		
MAXIMUM DISTANCE	LPS500A-MM-LC-R2, LPS500A-MM-SC-R2: 550 m; LPS500A-SM-10K-LC-R2: 10 km		
POWER			
PRIMARY POWER SUPPLY	Requirement: 100 to 240 VAC, 47 to 63 Hz; Consumption: Up to 65 W		
POE POWER CAPACITY	Available power: 15.4 W; Number of ports that support PoE: (1) PoE port supports PoE within available PoE power		
ENVIRONMENTAL			
TEMPERATURE	Operating: 32 to 122° F (0 to 50° C); Storage: -4 to +158° F (-20 to +70° C)		
HUMIDITY	Operating: 5 to 95% noncondensing		
ALTITUDE	<3000 m (<10000 ft.)		
REGULATORY COMPLIANCE			
EMI	FCC Part 15 Class A and CE Mark Approval; LVD EN 62368-1		
SAFETY	EN62368-1		



## **ORDERING INFORMATION**

ІТЕМ	CODE
TP to Fiber Media Converters	LPS500A-MM-LC-R2
Multimode Fiber with RJ-45 and LC	LPS500A-MM-LC-R2
Multimode Fiber with RJ-45 and SC	LPS500A-MM-SC-R2
Singlemode Fiber with RJ-45 and LC	LPS500A-SM-10K-LC-R2

#### DISCLAIMER

Black Box Corporation shall not be liable for damages of any kind, including, but not limited to, punitive, consequential or cost of cover damages, resulting from any errors in the product information or specifications set forth in this document and Black Box Corporation may revise this document at any time without notice.

#### **ABOUT BLACK BOX**

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

FILENAME: LPS500A-MM-LC-R2\_DS\_REV1.PDF © COPYRIGHT 2020. BLACK BOX CORPORATION. ALL RIGHTS RESERVED. NOTES

#### TRADEMARKS

Black Box and the Black Box logo type and mark are registered trademarks of Black Box Corporation.

Any other trademarks mentioned in this document are acknowledged to be the property of the trademark owners.

