

# Outdoor-Hardened SFP 95 W PoE++ 1-Port Optical Backhaul Demarcation Device

LBOG-100VAC-95W-1P

LINDSAY  
BROADBAND

Lindsay's LBOG-100VAC-95W-1P is an outdoor-rated fiber PoE++ device designed for backhaul and networking applications. The single output PoE++ port delivers 55 VDC, 95 W power to remote IP devices with the security of 6 kV surge protection and supports 10/100/1000 Mbps data speed. The single PoE output port supports IEEE 802.3af/at/bt applications, such as small cells, wireless APs, IP cameras, POS devices, IoT devices, information kiosks, and other high-power Ethernet backhaul devices. The effective distance is 100 meters over Cat5e/Cat6e cables. The IP66 housing does not need to be opened and provides a quick, seamless installation.

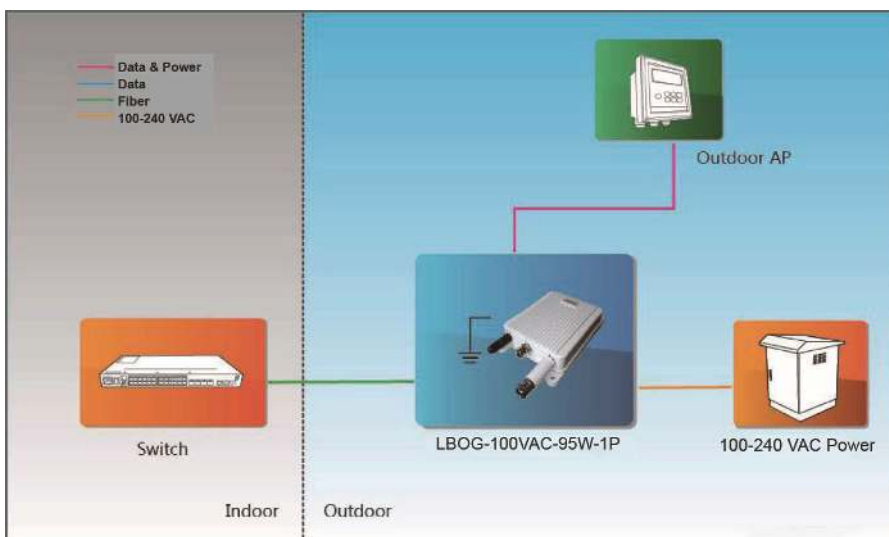


LBOG-100VAC-95W-1P  
(front angled view)

## FEATURES

- SFP optical backhaul
- Output power 55 VDC, 95 W
- Input 100-240 VAC
- 6 kV (10/700 $\mu$ s) surge protection on LAN, AC, PoE
- Working temperature: -40°C to +65°C (-40°F to +149°F)
- Protection level: IP66
- 10/100/1000 Mbps
- IEEE 802.3af/at/bt compliant
- RoHS compliant
- WEEE compliant
- UL certification

## APPLICATION DIAGRAM





## SPECIFICATIONS

Parameter	Specification
<b>Standard</b>	
Ethernet	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-Tx
	IEEE 802.3ab 1000Base-T
Input	100-240 VAC 2.0 A 50/60 Hz
Output	55 VDC 1750 mA
	Power pins 4/5(+), 7/8(-), 3/6(+), 1/2(-)
	IEEE 802.3af/at/bt
<b>Surge Protection</b>	
AC Surge	Line-Line 1.2/50 $\mu$ s(8/20 $\mu$ s): 4 kV
	Line-Earth 1.2/50 $\mu$ s(8/20 $\mu$ s): 6 kV
PoE Surge	Protected line 1,2,3,4,5,6,7,8
	Common mode (10/700 $\mu$ s): 6 kV
	Differential mode (10/700 $\mu$ s): 1.5 kV
<b>Approvals</b>	
Safety	cULus
EMI	FCC Part 15, Class B
EMS	IEC 61000-4-2 (ESD) 6 kV (contact), 8 kV (air)
	IEC 61000-4-3 (RS) 10 V/m (80 MHz 2 GHz)
	IEC 61000-4-4 (EFT) power port 2 kV; data port 1 kV
	IEC 61000-4-5 (Surge) power port 1 kV/DM; 2 kV/CM
Immunity	IEC 61000-4-6 (CS) 10 V(150 kHz 80 MHz)
	IEC 60068-2-6 (Vibration)
	IEC 60068-2-27 (Impact)
	IEC 60068-2-32 (Free Fall)
<b>Environmental &amp; Physical</b>	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	Maximum 90%, non-condensing
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Humidity	10% to 90%, non-condensing
Operating Altitude	Up to 3000 meters
Housing	White metal
Mounting	Wall-mounted / pole kit optional
IP Rated	IP66, IEC 60529, NEMA 250
Dimensions (H x W x D)	10.6"H x 6.9"W x 2.6"D (26.9H x 17.6W x 6.5D cm)
Weight	4.0 lb (1.8 kg)

## ORDERING INFORMATION

Part #	Description
LBOG-100VAC-95W-1P	Outdoor-hardened 100-240 VAC, SFP, 95 W PoE++ 1-port; optical backhaul demarcation device
<b>Accessory</b>	
LBOG-100VAC-KIT	Pole mount kit