

## DOCSIS 50W PoE + GATEWAY

## LBDG-M50

Enable your preferred access point (AP) or IP camera with this low-cost, Lindsay TOUGH DOCSIS-based infrastructure now utilizing up to 50W PoE+.

Flexibility matters in 802.11 deployments. The *Lindsay Broadband* Four Pair DOCSIS Gateway (LBDG-M50) allows the use of High Power PoE+ devices on the HFC strand. You can use a Lindsay recommended device, or any AP, IP camera, etc. that is compatible with 802.3at based 4 pair schemes.

Designed to maintain reliability but minimize costs, the hardened LBDG uses a standards based DOCSIS cable modem that is wholly under the control of the MSO. It can be used in conjunction with SNMP monitoring systems to evaluate cable plant line conditions.



## FEATURES

- Die-cast aluminum housing (clamshell design)
- Mounting configurations: wall, pole, vault, mast, or strand
- 15-PSI weather-proof seal
- Temperature cycled, from -40°C to +60°C (-40°F to +140°F)
- DOCSIS 2.0 /3.0
- Cable plant-powered (40-90 voltage AC)
- Electromagnetic interference (EMI): -100 dB
- 6Kv Surge protection
- HFC access at any directional coupler or power-passing tap
- Weather-tight RJ-45 Ethernet connector
- Coax power interface protects RF performance of HFC plant
- 802.3at PoE+, (provides up to 50W when using 4 pairs).
- Monitor and configure via SNMP agent, SSH or Web browser
- Add Wi-Fi, camera or other service-enabling device

Lindsay 50W DOCSIS Gateway Specifications		
<b>Cable Modem</b>		
Band Plans	DOCSIS (Annex B), Euro-DOCSIS (Annex B)	
Network Configuration and Management	TFTP, SNMP V2, (V3 for DOCSIS3.0)	
RF Input Sensitivity	+15 to -15 dBmv	
Input Impedence	75 Ohm	
Privacy	BPI+	
Doiwnstream Modulation	64 or 256 QAM	
Upstream Modulation	QPSK and 8, 16, 32, 64, 128, QAM	
<b>HFC</b>		
Return Loss	16 dB (max)	
Insertion Loss	5 dB (+/- 1 dB)	
Test Point	-20dB relative to cable modem RF port	
Pad Type	JXP, Separate Forward and Reverse	
Temperature Range	-35 to +60 Deg C	
EMI Isolation	100 dB (5 to 1000 MHz)	
Surge Withstand (HFC)	ANSI-IEEE C62.41 Category B3 (6KV) (GAS Tube, or Solid State Crowbar option)	
Powering	40 - 90 Vac (Pseudo Sine)	
Power Consumption	15W + (PoE Load * 1.25)	
<b>Ethernet</b>		
Throughput	10/100/1000 Mbps	
Reach	100 meters	
Interface	RJ45	
PoE	Type	802.3at and 4 Wire PoE
	Voltage	55 Vdc
	Wattage	50W using all four pairs 30W when using two pairs
<b>Physical</b>		
Dimensions	290 x 220 x 130 mm (11.5 x 8.5 x 5 in.)	
Weight	2.5 Kg (6 lbs)	
Ingress Protection	IP68 (15 psi for 10 seconds)	