

Outdoor Small Cell Gateway

LBDG-400-AC-8200-2 SERIES

LINDSAY
BROADBAND

Lindsay's HFC-based, LTE small cell connectivity and power solutions are helping service providers worldwide to deliver new business services from their existing, underutilized networks. Lindsay's LBDG-400-AC-8200-2 solution can be strand, vault, pedestal or wall mounted. This solution delivers up to 400 watts with reliable DOCSIS® backhaul.

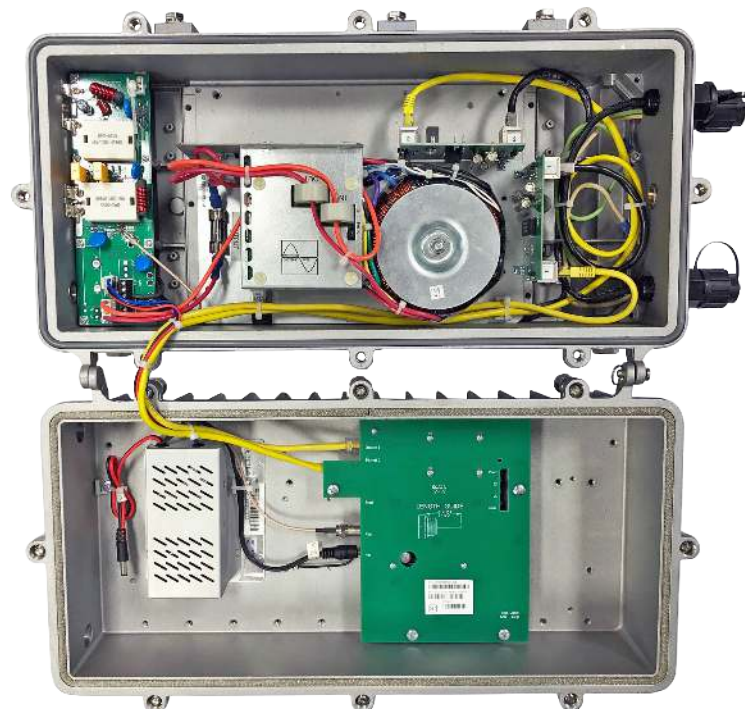
See Lindsay Broadband's full lines of indoor and outdoor small cell gateways for more options.



LBDG-400-AC-8200-2
(front angled view)

FEATURES

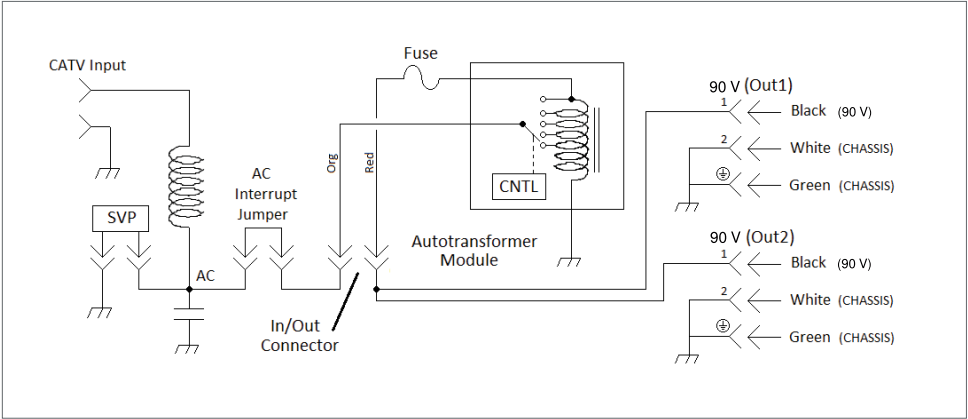
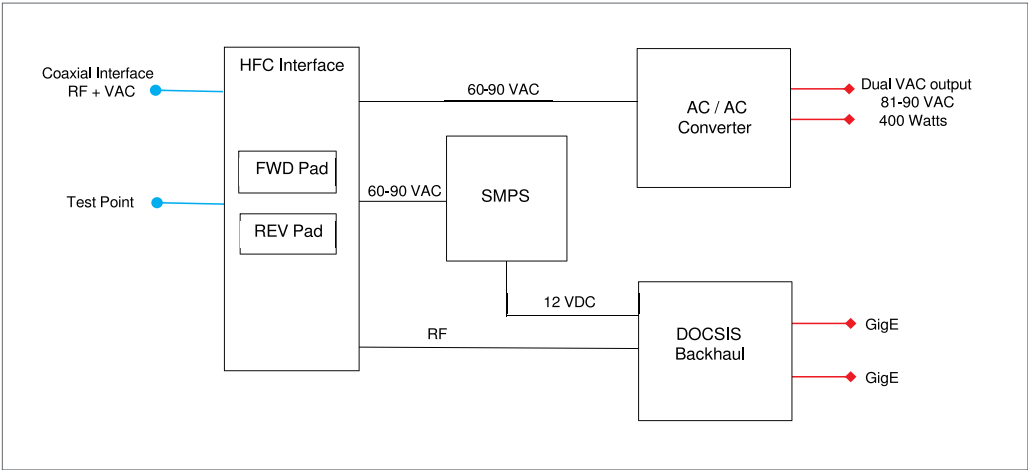
- Diecast aluminum housing (clamshell)
- Mounting configurations: strand, vault, pedestal or wall
- Gasket provides 15 PSI weatherproof seal
- Operating temperature range: -40°C to +60°C (-40°F to +140°F)
- Designed to protect against surges: ANSI-IEEE C62.41 Category B3 6 kV
- DOCSIS 3.1 compliant
- Cable plant-powered (60-90 VAC)
- HFC access with Lindsay's directional coupler
- Coax power interface provides for easy setup
- Monitor & configure via SNMP agent



LBDG-400-AC-8200-2
(open view)



FUNCTIONAL SCHEMATICS



ORDERING INFORMATION

Part #	Description
LBDG-400-AC-8200-2	Outdoor small cell gateway, LTE-CVT90-400-8200-2 (5-1749-7)



SPECIFICATIONS

Parameter		Specification
Cable Modem - DOCSIS 3.1		
Band Plans		DOCSIS 3.1
Network Configuration & Management		TFTP, SNMP (V1, V2c, V3), Telnet, HTTP
Input Impedance		75 Ω
Privacy		BPI+
Downstream Modulation		up to 32 SCQAM or 2 OFDM
RF Input Sensitivity ⁽¹⁾	Modem F-Port	+15 to -15 dBmV
	Housing 5/8" Port	+20 to -10 dBmV
Upstream Modulation		up to 8 SCQAM or 2 OFDMA
Maximum Upstream Data Rate		over 1 Gbps
Transmit Power (Max.)	Modem F-Port	+65 dBmV for OFDMA
		+57 dBmV for 16 QAM, 4-8 upstreams
	Housing 5/8" Port	+61 dBmV for OFDMA
		+53 dBmV for 16 QAM, 4-8 upstreams
HFC Interface		
Return Loss ⁽²⁾	with 75 Ω termination	16 dB (Min.)
	when terminated by modem	10 dB (Min.)
Insertion Loss ⁽¹⁾		5 dB (±1 dB)
Pad Type		0-20 dB (JXP, separate forward & reverse)
Temperature Range		-40 °C to +60 °C (-40 °F to +140 °F)
EMI Isolation		100 dB (5-1000 MHz)
Surge Withstand (HFC)		ANSI-IEEE C62.41 Category B3 (6 kV)
Ethernet		
Throughput		10/100/1000 Mbps
Reach		100 meters
Interface		RJ45
Power, Environmental & Physical		
Input Voltage ⁽³⁾		60-90 VRMS
Output Voltage ⁽³⁾		81-90 VRMS
Maximum Output Power		400 W (@ 60 VAC)
Ingress Protection		IP68 (15 PSI for 10 seconds)
Dimensions (H x W x D)		10.8"H x 21.0"W x 8.5"D (27.4H x 53.3D x 21.6W cm)
Weight		28.5 lb (13.0 kg)

NOTE:

(1) Levels reported by modem management interfaces reference the modem F-port. Levels at the gateway KS-port incorporate the internal -5 db/-4 dB loss of the HFC interface

(2) Overall return loss is dependent on the modem

(3) Quasi-square voltage