

LINDSAY BROADBAND 4 PORT E-MTA

Increase revenue and expand Telephony Business Services Today

Turn existing HFC assets into additional revenue quickly and easily with the Lindsay Broadband Business Services 4 port outdoor hardened E-MTA. The LBEG-A4 delivers 4 high quality Voice over IP lines and is flexible to any installation be it strand, vault or wall. Designed with the Cable Operator in mind the DOCSIS 3.0 8X4 EMTA is wholly under the control of the system operator, it can be used in conjunction with his SNMP monitoring system. Small and medium business environments have been mandated to reduce overhead. The LBEG-A4 is a cost effective solution for their communication needs while sustaining a high ROI for the MSO.



LBEG-A4



FEATURES

- Die-cast aluminum housing (clamshell design)
- Mounting configurations: wall, pole, vault, mast, or strand
- Dual gaskets provide 15-PSI weather-proof seal
- Operating range, from -40°C to +60°C (-40°F to +140°F)
- Designed to isolate EMI and protect against surges
- DOCSIS 3.0 compliant
- Cable plant-powered (40-90 voltage AC)
- Electromagnetic interference (EMI): -100 dB
- 6Kv Surge protection
- HFC access with directional coupler or power-passing tap
- Coax power interface provides for easy set up.
- Monitor and configure via SNMP agent, Telnet or Web browser
- 110 Volt option available

CONFIGURATION

- Up to 4 lines of carrier-grade VoIP
- DOCSIS 3.0 compliant
- Flexible 8X4 downstream/upstream channel-bonding with superior throughput
- Backwards compatible with DOCSIS 1.0, 1.1 and 2.0
- Multiple Protocol Support:
 - Initiation Protocol (SIP)
- IPv4 or IPv6 addressing models for DOCSIS CM layer
- 10/100/1000 Base-T Ethernet Interface

SPECIFICATIONS

Interfaces	
RF Interface	External 75 ohm "F" type connector
Data Interface	10/100/1000 Base-T Ethernet RJ-45
Telephony Interface	4 lines; RJ-14 (Line 1/2, Line 3/4) RJ-11 (Line 2, Line 4)
Input Voltage (nominal)	115-240 VAC 50/60Hz
Power Consumption	6 (idle) 16 (max)
Telephony	
Supervisory Voltage	48V DC nominal
Maximum Loop Length to CPE	1000ft (350M) of 26 AWG (0.4 mm) wire
Ringing Load Capacity	10 REN total; 5 per line
Provisionable High Loop Current Mode	Yes
Telecordia GR 1089 (Lightning and Power Surge) Tested	Yes
Programmable Interface for worldwide Applications	Yes
RF Downstream	
Frequency Range (MHz)	108-1002
Bonded Channels	up to 8
Number of Tuners	2
Capture Bandwidth (MHz)	96 (PER TUNER, 192MHz total)
Modulation (QAM)	64 to 256)
Data Rate (Mbps, Theoretical)	up to 343 ** Note - Maximum raw DOCSIS rate; actual data throughput is less due to overhead, configuration, and RF conditions
RF Input Sensitivity Level (dBmV)	-15 to +15
Carrier Bandwidth	6MHz
MoCA Immunity Filter	Yes
RF Upstream	
Frequency Range (MHz)	5-42
Bonded Channels	up to 4
Modulation	QPSK, 8QAM, 32QAM, 64QAM, 128QAM, (S-CDMA only)
Modulation Bandwidth (KHz)	TDMA: 200, 400, 800, 1600, 3200, 6400 S-CDMA: 1600, 3200, 6400
Data Rate (Mbps, Theoretical)	up to 122 ** Note- Maximum raw DOCSIS rate; actual data throughout is less due to overhead, configuration, and RF conditions
RF Output Level (dBmV - one channel)	TDMA: +17 to 58(8QAM, 16QAM); +17 to 57 (32QAM, 64QAM) **Note- A-TDMA max output power reduced 3dB when transmitting 2 channel and 6dB when transmitting 3 or 4 channels S-CDMA: +17 to +56 (all modulations) **Note - S-CDMA max output reduced 3dB when transmitting 2 or more channels.
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75
Standards	
DOCSIS 3.0	RoHS, WEEE
UL 60950	RFC3261 SIP; Session Initiation (Protocol)
FCC Part 15 Class B	Codec:G711, 64kbps, μ-law and A-law encoded speech
CE	Enhanced codec support (G.726, G728, G729E)
CB	T.38 Fax Relay
General	
Temperature Range	-40 to + 60 Deg C (22 F to 140 Deg F)
EMI Isolation	100 dB (5 to 1000 MHz)
Surge Withstand (Copper Port)	ANSI-IEEE C62.41 Category B3 (6Kv)
Powering	60 / 90VAC(Pseudo Sine) 110 Volt power available
Dimensions	16 X 9.5 X 7 inches 4
Weight	16 lbs
Airtight	15 p.s.i.
Features	Separate Fwd. and Rev. Padding, Exterior HFC Testpoint

**** Note: Specifications subject to change without notice**

**FOR MORE INFORMATION ON OUR WIRELESS, OPTICAL AND RF PRODUCTS
CALL 1-800-465-7046 OR
U.S. Sales Toll free: 877-672-4340**

www.lindsaybroadbandinc.com