

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 sand 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**

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