

Lemko EZ LTE Solution - CBRS Band

Lemko Corporation's EZ LTE Solution is an advanced 3GPP compliant non-line of sight mobile wireless infrastructure platform designed specifically for enterprises and wireless broadband providers operating in the CBRS band (Band 48 in the U.S.) and Band 42 and 43 internationally.

This solution highlights Lemko's unique architecture for integrating various communications and collaboration applications into streamlined, ruggedized nodes for scalable mobile wireless networks. These self-enclosed nodes are ideally suited for outdoor and indoor installations where meeting clients' mobile wireless network technology goals and business objectives are of the utmost importance.

Cloud-based interfaces and applications support subscriber management, policy/charging control, reporting and monitoring. Each EZ LTE is rated up to 2W RF power and supports voice, SMS, high speed data, video calls and data handoff.

Key Facts

- Transmitter RF Power up to 2W (or ≈ 1.8 miles, non-line of site)
- 20 MHz bandwidth capable
- Supports networking over microwave PTP and Satellite link
- Light pole mountable
- Supports 3GPP compliant CPE/UEs
- Compact footprint (includes EPC-PGW, SGW, MME, HSS, CDR/PCRF)
- Temperature operating range (-45°C to +55°C)
- Waterproof/Dustproof rated for harsh environment deployment
- Data off-load at each node





Output Power (TOC)

2W (1W x 1W MIMO)

Synchronization Mode

POWER INDICES

Temperature: -45°C to +70°C

Relative Humidity: 5% to 95%

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5% to 95%

GPS, IEEE1588

Power Supply

48V DC

Storage

Product Specs

PERFORMANCE INDICES

Working Frequency
Band 48 (CBRS band), Band 42 and 43

Working Bandwidth

5MHz/10MHz/15MHz/20MHz

TDD DL ≈ 90Mbps - UL ≈ 30Mbps @ 20MHz 96 active users (3-Sectors: 288 active users)

Up to ≈1.8 miles radius coverage

Ethernet Connection

Mobility ≤ 75 m/h

Receiver Sensitivity -105dBm

PHYSICAL INDICES

Weight (DC) < 5.5kg

ENVIRONMENT INDICES

Ground

 $\leq \! \! 5 \; \Omega \; \text{Earth resistance can be less} \\ \text{than } 10 \Omega \; \text{in lightning-less area with} \\ \text{less than 20 lightning storms a year} \\$

Temperature

Outdoor: -45°C to +55°C

Heat Dissipation
Natural Cooling

RELIABILITY INDICES

MTTR Availability
1hour 99.9997%

EMC INDICES

MTBF

≥ 350000 hours



Layer 7 backbone Ethernet/Microwave Link (low cost)

Dimension (HxWxD) 12 x 9 x 5 (in) 300 x 228 x 120 (mm)

POWER CONSUMPTION

Power Dissipation 55W@100% RF load LTE

National/International Standard ETSI EN 301 489-01,

ETSI EN 301 489-23 ETSI EN 300 386-V1.3.2

(CISPR22) Class B 1999/5/EC (R&TTE)

Waterproof/Dustproof

IP65

Downtime Duration <1.481min/year