

CABLE AML



The Ultimate All-Digital Radio Link for Unmatched Performance and Reliability

NEXT GENERATION PERFORMANCE, UNPARALLELED VALUE

Salinas LBx

Benefits:

- **Ultimate Link Reliability**
- **Extreme Data Accuracy**
- **Flexible Capacity and Low Latency**
- **Superior Signal Integrity**

Salinas LBx

Overview:

In remote areas where mission-critical communication is essential, you can't afford compromise. The Salinas LBx is an all-digital radio designed to deliver a premier, long-distance link that keeps you connected, no matter the conditions—with **1+1 redundancies and space diversity** for ultimate uptime and reliability.

**We have covered your communication challenge:**

- **For Broadcasters:** Need a resilient Studio-to-Transmitter Link (STL). The Salinas LBx ensures your broadcast signal arrives at the transmitter with pristine digital clarity, even over challenging terrain.
- **For Point-to-Point Needs:** Is your remote operation in need of a robust, high-capacity duplex link. The Salinas LBx provides a powerful, reliable backbone for your data, voice, and video traffic.

**Model and Frequency Options:**

Model	Frequency Band
LB-09	950 – 980 MHz
LB-13	1.3 GHz
LB-15	1.5 GHz
LB-17	1.7 GHz
LB-20	2.0 GHz

Key Technologies:

◇ **Uninterrupted Uptime:**

With 1+1 redundancy, a passive “hot standby” radio unit takes over instantly if the primary unit fails. This eliminates single points of failure and prevents costly service downtime, crucial for mission-critical remote operations.

◇ **Ultimate Link Reliability:**

Space diversity uses two physically separated antennas to protect against signal fades caused by multipath interference. The system automatically selects the best signal, ensuring your link remains stable even in challenging terrain or over water.

◇ **Extreme Data Accuracy:**

A sophisticated, two-layer error correction system (BCH-FEC and LDPC-FEC) ensures that your data arrives without corruption, no matter the link quality. You can have complete confidence in the integrity of your transmitted information.

◇ **Flexible Capacity and Low Latency:**

The ability to program the bandwidth from 200 kHz to 20 MHz allows you to balance data throughput and spectral efficiency, providing the speed you need for any application.

◇ **Superior Signal Integrity:**

Advanced modulation minimizes intermodulation distortion, allowing for cleaner signals and more output power, which is critical for maintaining performance over long distances.

◇ **Simple Integration:**

A standard Ethernet interface allows for seamless connectivity with your existing network infrastructure, making setup and configuration fast and easy.

◇ **Configurable Power for Any Environment:**

Multiple power output options, up to 10W, ensure you can meet the power requirements of any remote site, whether it has limited power or requires maximum transmit power.



Technical Features:

- **Configuration:** 1+1 redundancy and space diversity options available for enhanced reliability.
- **Bands:** Wide operating frequency range from 950 to 2100 MHz.
- **Bandwidth:** Programable bandwidth settings from 500 kHz to 28 MHz.
- **Modulation:** Multiple modulation options, from basic QPSK to high-speed 128PSK.
- **Error Correction:** Concatenated forward error correction (FEC) with BCH outer coding and LDPC inner coding.
- **RF Filtering:** Digital filter roll-off that is adjustable from 0.1 to 0.35.
- **Interface:** Standard Ethernet interface for network connectivity.
- **Power Output:** Options for different power outputs, up to 10W.

Technical Specifications:

Parameter	Transmitter	Receiver
Frequency Range	950 – 980 MHz, 1.3 – 1.6 GHz, 1.7 – 2.1 GHz (based on requirements)	950 – 980 MHz, 1.3 – 1.6 GHz, 1.7 – 2.1 GHz (based on requirements)
Transmit / Receive Mode	Duplex operation (consult factory). Available in Simplex	Duplex operation (consult factory). Available in Simplex
Transmitter Power / Receiver Sensitivity	+33 dBm standard (higher power options available — consult factory)	–93 dBm @ 16QAM (500 kHz) BER = 10^{-6}
Occupied Bandwidth Options	500 kHz, 1 MHz, 1.25 MHz, 1.75 MHz, 3.5 MHz, 7 MHz, 14 MHz, 28 MHz	500 kHz, 1 MHz, 1.25 MHz, 1.75 MHz, 3.5 MHz, 7 MHz, 14 MHz, 28 MHz
Power Supply	AC 110/220 V (DC option available — consult factory)	AC 110/220 V (DC option available — consult factory)
Mechanical Dimensions	Height: 8.8 cm Width: 43 cm Depth: 45 cm	Height: 8.8 cm Width: 43 cm Depth: 45 cm
Operational Temperature Range	0 °C – 45 °C	0 °C – 45 °C