

Lyralink

YOUR RELIABLE RECEIVER



Lyralink is a high-performance receiver designed for use as ground station equipment, in laboratory settings for transmitter development, or as part of an EGSE system. It is fully configurable for a wide range of symbol rates and IF frequencies via an intuitive Graphical User Interface (GUI).

The instrument provides valuable insights into the received signal, such as EVM, SNR estimation, input power, scatter plot, and spectrum. An integrated tester allows for the characterization of transmitter performance in terms of Bit Error Rate (BER), Codeword Error Rate (CER), Frame Error Rate (FER) and Physical Frame Error Rate (PER) versus Energy per Symbol over Noise Density (E_s/N_0).

Lyralink is already available with all the features listed in the Key Features section, while future releases will further expand its performance and flexibility.



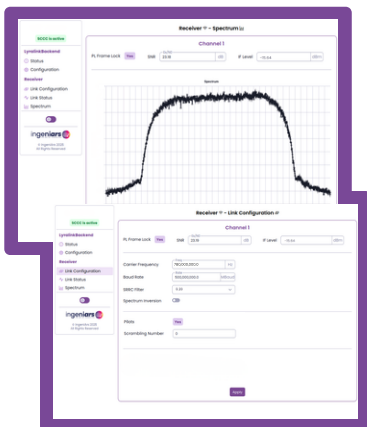
KEY FEATURES

- **Configurable symbol rate up to 500MBaud** (planned upgrade up to 1.2GBaud)
- **Single channel** (planned upgrade to two independent input)
- **Input IF range** [530 – 2700] MHz
- **Input power range** [-50; -10] dBm
- **50-ohm input SMA female connector**
- **Selectable 10MHz clock reference** (external or internal)
- **Dedicated input for Pulse-Per-Second (PPS) reference**
- **Support to CCSDS 131.2-B standard** for Serial Concatenated Convolutional Code (SCCC) decoding
- **Support to CCSDS 131.3-B standard** for DVB-S2/S2X decoding
- **Low implementation loss**
- **High order modulation** (up to 64 APSK)
- **Optional transmitter with channel emulator** for end-to-end testing with configurable AWGN and Doppler impairments
- **Integrated Bit Error Rate Tester** (BERT) / Codeword Error Rate Tester (CERT) / Frame Error Rate Tester (FERT) / Physical Frame Error Rate Tester (PERT)
- **Intuitive Graphical User Interface** (GUI)
- **Application Programming Interface** (API) for remote control
- **Storage capability of raw data** at a maximum throughput of 6.5 Gbps per channel

UPCOMING RELEASES

THIRD RELEASE – AVAILABLE Q2 2026

- **Smart Equalizer**
- **Dual Channel Option Two independent channels with HW upgrade**



FOURTH RELEASE – AVAILABLE Q3 2026

- **Support to TT&C with Viterbi, TCM, RS, LDPC decoding packages**
- **Dual channel option up to 1.2GBaud with selectable cross polarization equalizer**
- **Dual channel test modulator at 1.2GBaud with XPOL emulation**

AVAILABLE ON DEMAND

- **AOS** formatting
- **SLE** package
- **CFDP** package
- **Additional Communication** standard packages