



Lumistar LS-68-R1 Series Multi-Stream Modular Telemetry Processing, Simulation and Recording System



- Bit Synchronization
- Frame Synchronization
- Decommutation
- Real Time Telemetry Displays
- Bit Error Rate Detection
- Data Recording
- Telemetry over IP (TMOIP)
- PCM Data Simulation
- IRIG Time Code Reader/Gen
- PTP Network Time Reader
- Small Size / Weight / Power



A Complete Three Stream Baseband Telemetry Processing Ground Station in a Skinny 1U Chassis

(19" W x 12" D x 1.75" H)

LS-68-R1 Series Features:

- Ground, Mobile, Airborne/Shipboard & Remote Ops
- Flexible/Extensible Firmware-Based Personalities
- Utilizes Lumistar’s Cutting Edge “LS-28-DRSM” Technology
 - Telemetry Processing About the Size of a Hard Drive!
- Up to Three Frame Sync/Decoms with “On-Board Data Simulation”
- Up to Two Bit Synchronizers (*Optional*)
- Data Recording (*Optional*)
 - 64 GB per data channel (three channels each, internally stored)
 - > 7 hours per channel at 20 Mbps
- PCM Super-Simulation Capability
 - Enhanced User Programmable PCM and PRN Simulation
 - Real-time Network or Flexible Playback PCM
 - Maximum 2 PCM Simulators per unit
- Supports Decryption Operations
- Incorporates Lumistar’s Latest Generation Real-Time TM Display Software (LDPS_10x)
 - IADS and Magali Real Time Display Software Compatible
 - Build Your Own Software Displays using our ICD
- TTL and Differential High Speed 422 I/O
- Real Time CH10 Recording and Publishing
- Bit Error Rate Readers (3)
- O-Scope Displays for Bit Synchronizer Input Visualization
- Viterbi Decoding available for Bit Sync Input Channels (*Optional*)
- User Defined I/O Discrete Signals
 - Allows Creation of Dozens of Optional “User Defined” Signals
 - *Consult Factory for Specific Information*
- No Commercial Internal OS
 - Control / Status over Ethernet, USB and RS-232
 - User Friendly Lumistar App Provided or Use Your Own
- IRIG Time Code Reader and Generator Capability
 - Used for Time Stamp of Ethernet Packets/Decom Data/Recorded Data
- IEEE-1588 Precision Time Protocol (PTP) Reader (*Optional*)
- Incorporates the Modular LS-68-M (inside the chassis)
 - 4.0” x 6.0” x 1.13”
 - Approx. 1.1 pounds
- AC Power
 - 110 – 240 VAC ; 47-63 Hz
 - 70 watts power dissipation (*Typical*)

https://lumi-star.com/uploads/MANUALS/LS-68-M/LS-68-M_UserManual.pdf

Also Available in Lunchbox and Modular Configurations