



## LUMISTAR QUICK PRODUCT LIST OCTOBER 2014

### Components and Custom Integrated Systems

**LS-08** – Fixed Antennas – for quick look signal acquisition in L, S & C bands

**LS-11** – “Blue Box” Portable TM transmitters in L, S & C bands  
4 formats, PRN w/ errors, up to 15 Mbps and +0 dBm

**LS-22** – 70 MHz Spectral and O-Scope card for TM signal displays



**LS-25** - Multi-Band FM - single-slot, full-length PCI FM Receiver with one, two, or three frequency bands - supports PCM data rates up to 20 Mbps and includes an FM demodulated output for PCM data, two 70 MHz IF outputs, AM and AGC outputs

**LS-26-PR** – “Blue Box” Portable FM Receiver with single band and 4 IF filters

**LS-27-B** Modular Dual-Channel Quad-Band FM Receiver  
With 12 IF filters, 70 MHz, AM, AGC and video data outputs. Controlled via – serial, TCP/IP, or USB

**LS-27-D** – Dual Channel Quad Band Down Converter & Tracking Receiver, used with the LS-35 IF receiver.



**LS-35-R** – Dual Channel IF receiver with Pre/Post detect combining, multi-mode demodulators with data rates up to 40 Mbps, bit synchronizer outputs, Viterbi decoding, spectral and constellation displays, BER readers, and 70 MHz IF modulator with calibrated noise inject.

### LS-28 SERIESRANGE TELEMETRY RECEIVER/COMBINERS

Combined, the **LS-27** and **LS-35** provide a two card solution for receiving multiple bands, combing and demodulating all ARTM formats as well as BPSK & AUQPSK used by the satellite community. Installed into 2U, 4U and Portable chassis.



**All Lumistar cards are available in PCI, PCI-e and Compact PCI form factors. Some can be independent of the OS and bus, controlled through serial or Ethernet. VME and ISA products can still be manufactured, but not stocked.**

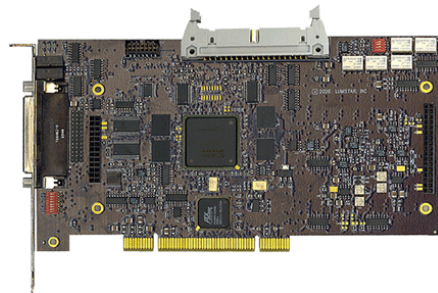
**LS-40** Bit Synchronizer for the generation of a correlated clock and the removal of noise and jitter on a PCM data stream for data rates up to 25 Mbps

**LS-45** Bit Synchronizer with Source Selection option with up to three channels and data rates up to 40+ Mbps. The third channel can be used to post D combine the FM demodulated signals of Channels 1 & 2 creating simple FM combining system with combiner performance improvement.



**LS-50** Multi-function PCM Decommutator offers a PCM decom, PCM simulator, IRIG A/B/G time code reader/generator, and optional bit sync in a single short card slot.

**LS-55** Dual Channel Multi-function PCM Decommutator offers a PCM decom, PCM simulator, IRIG A/B/G time code reader/generator, and optional bit sync in a single short card slot. Accepts LS-45 bit sync for 2 channel solution



**LS-70** Dynamic Data Simulator allows complex data streams to be generated for evaluation of bit synchronizers and PCM decommutator performance. Individual bits and words can be change in real time for testing of TM displays and system response.

**LS-71** D/A Converter (DAC) board provides high speed analog outputs of PCM decommutated data allowing real time data displays using strip chart recorders or similar devices.

**LS-84** Installing decoms and other cards into 1U, 2U, 4U rack-mount chassis. All versions allows integration of a complete ground telemetry station. Shown is the unique **EC** chassis with customized I/O panel holding up to 4 PCI or 4 PCIe cards. Also available is the **LS-84-AP** a larger portable unit with built in screen and fold down keyboard/mouse.

