



# ITC 2011

## C-Band Special Session

## C-Band Vendor Products

### LUMISTAR

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Bally's

Las Vegas, NV

The logo for Lumistar features the word "LUMISTAR" in a stylized, outlined font. The letters are primarily red with blue highlights. The text is set against a white background with a blue, abstract, swirling graphic element that resembles a comet or a signal path. The entire logo is contained within a white rectangular box.

# LUMISTAR

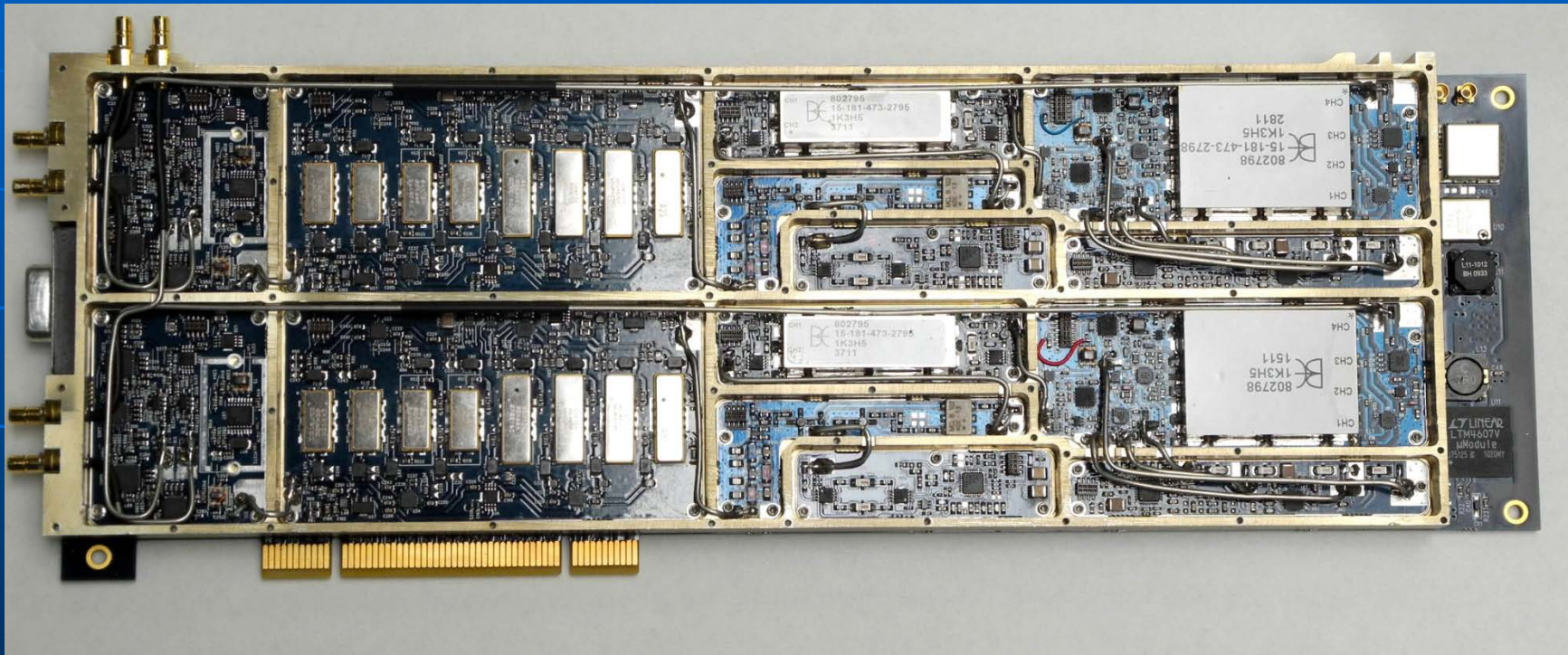
- Lumistar manufactures ground station telemetry products for the flight test industry. Card products include: RF Receivers, IF Receivers, Digital Combiners, Bit Synchronizers, Decommutators, DAC, PCM Simulators and RF Simulators. Lumistar also develops custom software for unique telemetry processing, display and Chapter 10 conversion. Lumistar integrates these products into chassis level solutions



# “CIF” Receiver

- C-Band signal is high side down converted in pedestal and IF sent to receiver
  - 400-459 MHz and 600-1150 MHz
  - Lumistar Field mode inverts spectrum
  - Lab mode doesn't invert
  - GUI can switch between modes
  - NATO C version operates to 300 MHz
  - PCBs use conventional FR4 materials

# “CIF” Receiver





# Block Down Converter

## Receiver

- 5550 MHz high side injection
  - Feeds into Lumistar "CIF" receiver
  - Insertion Loss neutral
  - Bypass mode passes L and S band
  - Bypass has 2500 MHz LPF
  - Controlled either serially or by CIF Rx
  - Size 1.5"x2.5"x3.8"
  - Uses .3 amp@12VDC
  - Uses conventional FR4 material



# Block Down Converter Receiver





# Multi-Band Tunable Receiver

- Flight Line and lab testing of systems
  - Single slot PCI form factor
  - Dual channel card level receiver
  - Band broken into two sections
  - Up to 5 bands (LL, UL, S, C1, C2)
  - Uses hybrid board technology
  - In test now – JAN 2012 release



# C-Band Products



COME SEE US IN  
BOOTH 421  
*No Massages*