



# ITC 2011

## C-Band Special Session

### C-Band Vendor Products

**SEMCO**

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October 26, 2010

Bally's

Las Vegas, NV



- SEMCO has been in business since 1984 providing engineering services and high-end wireless communications products to U.S. and allied governments:
  - state-of-the-art telemetry receiving systems and signal simulators for missile and aircraft flight testing;
  - analog and digital video transmitters, receivers and surveillance systems for overt and covert surveillance;
  - wireless RF modules and control systems for robotics applications; and
  - wireless streaming video systems for tactical military requirements.





# C-Band Receiver

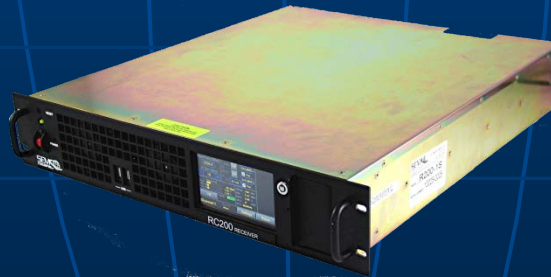
- RC600A/RC400 Quad Receiver
  - Four Receiver Channels/Two Combiners
  - C-Band, C-IF Band, L & E Band, P-Band
    - 4400-4940 MHz, 5091-5150 MHz, 400-1150 MHz, 200-400 MHz, 1400-2485 MHz
  - IRIG Tier II Compliant
  - FM, SOQPSK, CPM & Legacy Demodulation
  - Data Rates up to 46 Mbps





# C-Band Receiver

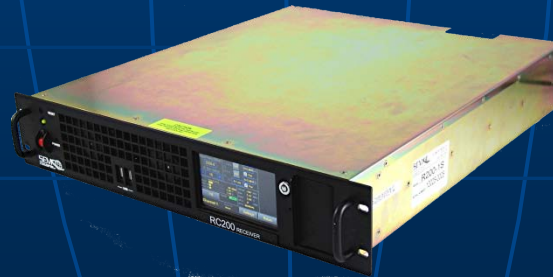
- RC600A/RC400/RC200/RC100 Dual Receiver
  - Two Receiver Channels/One Combiner
  - C-Band, C-IF Band, L & E Band, P-Band
    - 4400-4940 MHz, 5091-5150 MHz, 400-1150 MHz, 200-400 MHz, 1400-2485 MHz
  - IRIG Tier II Compliant
  - FM, SOQPSK, CPM & Legacy Demodulation
  - Data Rates up to 46 Mbps
  - RC100 for Rugged Applications





# C-Band Receiver

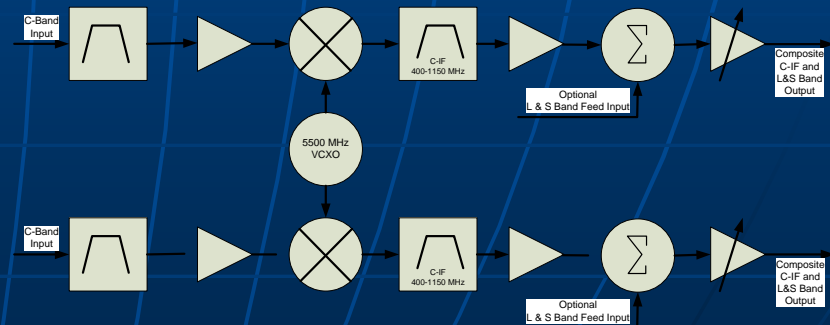
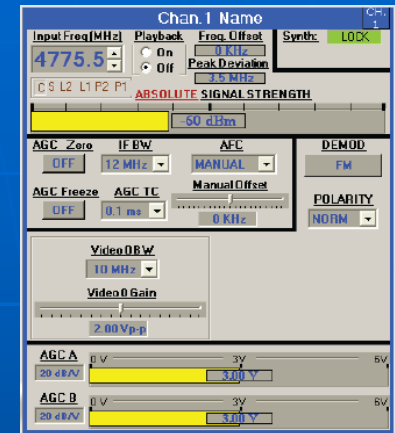
- RC600A/RC400/RC200/RC100 Receiver
  - Single or Multiple Channels
  - C-Band, C-IF Band, L & E Band, P-Band
    - 4400-4940 MHz, 5091-5150 MHz, 400-1150 MHz, 200-400 MHz, 1400-2485 MHz
  - IRIG Tier II Compliant
  - FM, SOQPSK, CPM & Legacy Demodulation
  - Data Rates up to 46 Mbps
  - RC100 for Rugged Applications



# C-Band Down Converter

- CDC100A

- 4400-5150 MHz Input
  - Notch from 4940 – 5090 MHz
- 400-1150 MHz Inverted output
  - Optional 1415-2485 MHz Summing Input Provides Composite C-IF and L & E Band Output
- Optional 1415-2485 MHz Output
  - "Virtual" C-Band Tuner is controlled by SEMCO Receiver
- IRIG Tier II Compliant
- Dual & Quad Channel
- 1U Rack & Pedestal Mounts





# C-Band Multi-Coupler

- MC100
  - 200 to 5150 MHz Input
  - 2 Inputs/8 Outputs
  - Programmable Gain
  - Network Enabled
  - 1 U Chassis
  - Monitor Ports





# C-Band Signal Simulator

- TSS200A
  - Multi-Band Tuning
    - 4400-5150 MHz, 400-1150 MHz, 1400-2485 MHz
  - Dual Outputs +10 to -100 dBm
  - Multi-Mode Modulation
    - FM, Legacy, SOQPSK & CPM
  - Internal Data Source
    - Pseudo Random Generated
    - Mission File Playback
  - Combiner Dynamic Test
  - Embedded Bit Sync/BERT





# C-Band Products



COME SEE US IN  
BOOTH # 127