**Features**

- Modulator with up to four each single channel modulator modules
- Inputs: DVB-ASI, files from internal microSD Card, and IP (UDP/RTP)
- Supports Pro-MPEG FEC on IP input
- Outputs: One DVB-S/S2 channel per module
- Each modulator module may have up to four BNC connectors which can be DVB-ASI input, DVB-ASI output, or SMPTE-310M input
- SNMP (Gigabit Ethernet) management support
- Optional FAULT contact output
- ETS 302 307 standard compliant
- Supports subtitles
- Programmable RF output frequency 55~2150 MHz (1 Hz step)
- Programmable RF output level -80 ~ 0dBm (0.1dB step)
- White noise addition over modulated signal to have desired C/N ratio
- SNMP (10/100/1000 Ethernet) remote web-based LAN management
- Firmware upgradeable via Internet
- SNMP management support (GigE)
- 2 lines by 40 characters LCD display

**Overview**

Satellites revolutionized long distance content delivery. Satellite modulators are the workhorses of the content delivery industry. DVB-S and DVB-S2 are the RF modulation standards used for satellite broadcasting worldwide.

The ReMod IP™ + DVB-S-S2/4ch is designed to repurpose free to air satellite content to cable or terrestrial tuner equipped televisions. This is an attractive proposition in hotels and other venues.

The ReMod unit supports four slots for either tuners or modulators. A fifth slot is used by the power supply. Each tuner sees one satellite transponder. Each modulator supports four adjacent frequencies whether it be QAM, DVB-C2, DVB-T2, or ISDB-T. Since each tuner module supports IP in as well as RF, in the event that satellite signal is lost, the tuner unit switches to its IP input.

As mentioned above the target market for this device is hospitality. This purposefully built device was not previously available in a single compact 1 RU device.

**Applications**

- Hospitality
- Product Testing
Specifications

Front Display/Keys
- 2 lines by 40 characters LCD
- 11 keys for Easy Control
- ENTER, EXIT, ARROW, and Slot Selection Keys

Slots
Five slots: One power supply module and four modulator modules

TS Input
- Formats: IP (with FEC), DVB-ASI
- Connectors: 75 ohm BNC, RJ-45

File Input
- Format: Micro SD reader hidden inside

RF Output
- Channel: 950-2150 MHz RF Selectable
- Connector: 75 Ohm BNC
- Frequency: VHF/UHF 55~2150MHz in 1 Hz steps
- Level: Programmable RF output level (0.1 dB steps from 0 to -80dBm)
- Freq Accuracy: Within 3ppm accuracy
- Phase Noise: <-90dBc/Hz @ 10KHz

DVB-S (QPSK) RF Output
- Standard: ETSI EN 300421 (DVB-S) compliant
- Code Rates: 1/2, 2/3, 3/4, 5/6, 7/8
- Symbol Rates: 1~45 M symbols/s

DVB-S2 RF Output
- Standard: ETS 302 307 Broadcast services compliant
- LDPC Code: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, and 9/10 supports
- Modulation Mode: QPSK, 8PSK, 16APSK, 32APSK
- Baseband Shaping Filter: Roll-off 0.20, 0.25, 0.35, none, selectable
- Symbol Rates: 1~45 M symbols/s
- Support MIS (multi input stream): Supports up to four streams

Ethernet Input/Output
- 10/100/1000 Mbps
- MPEG over RTP/UDP
- FEC supported (Pro MPEG) (IP in)

Management Ethernet
- 10/100/1000 Mbps
- SNMP, Web-browser manager

Optional FAULT Output
- Contact Open on Fault

Output DC Blocking Voltage
- 50V max

Network Management
- NMS supported through SNMP

Local Management
- Front panel display
- LCD display for use with optional decoder module

Unit
- 1 RU 19-inch rackmountable

Operating Temperature
+0 ~ +45°C (32 to 113°F)

Storage Temperature
-20 ~ +50°C (-4 to 122°F)

Operating Humidity
10 to 90%, Non-condensing

Power Supply Module
- AC 100-240V~ 50-60Hz 100W
- BNC  BNC    MEDIA             BNC  BNC    MEDIA             BNC  BNC    MEDIA            BNC  BNC    MEDIA   GND
- 2        4                                      2        4                                      2        4                                      2        4

Dimensions
- HxWxL: 1.7 x 19 x 13.6 inches (4.3 x 48.26 x 34.55 cm)

Weight
- 14 lbs. (6.356 kg.)

Conformities
- FCC, RoHS
- Low Voltage Directive 2006/95/EC

Ordering Info
ReMod IP + DVB-S-S2/4ch
Also available for QAM, DVB-C2, DVB-T2, or ISDB-Tb