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Digital Television Signal Processing

Transport Stream Multiplexer
Model #: MUX-150E

Applications:
- QAM Modulator Feed
- Combining 2 ATSC (MPEG2) TS into a single 38.784 Mbps DVB-ASI Transport Stream

Product Features:
- Multiplexes 2 MPEG-2 Transport Streams
- DVB compliant MPEG-2 TS output at 38.784 Mbps
- Remaps PIDs, TSID and Source ID
- Merges ATSC PSIP Tables
- (2) DVB-ASI Inputs and (2) Identical DVB-ASI Outputs
- Input TS rate is up to 19.392 Mbps
- Performs PCR Correction and Null Packet Insertion/Deletion
- RS232 User Interface

Dual Digital Receiver
Model #: DDR-150E

Applications:
- 8-VSB RF Digital Reception of 2 Independent Signals
- Multiplexer Feed
- QAM Modulator Feed

Product Features:
- DVB Compliant MPEG-2 Transport Stream Outputs
- Tunes to 8-VSB RF CH2-CH69
- PSIP VCT User Modification
  - -Major Channel #
  - -Minor Channel #
  - -Station ID
  - -Transport Stream ID
- Loss Transport Stream Alarm
- RS232 and Front Panel User Interface

Professional DTV Receiver/Decoder
Model #: DVM-150E

Applications:
- 8-VSB to NTSC/Analog L&R (converting off-air local digital broadcast to analog to carry on existing analog cable network) (benefit: higher quality analog signal is delivered to viewers)
- 8-VSB to DVB-ASI (receiving off-air local digital broadcast and inserting them into digital cable system)
- QPSK to DVB-ASI (receiving satellite digital broadcast and inserting them into digital cable system)
- Digital Video Decoding and Monitoring

Product Features:
- RF Inputs - 8-VSB/QAM or QPSK
- TS Inputs & Outputs - DVB-ASI, SMPTE-310M
- Video Decoding - MPEG-2 (4:2:0), all ATSC formats including 1080i, 720p, 480i & 480P,
  - -Analog: NTSC, S-Video, RGBHF / Pb Pr
  - -Digital: SDI/HDSDI
- Audio Decoding - AC-3 and MPEG-1 audio to analog Left & Right
- User Interface - front panel VFD screen and directional arrow keys, RS2325 option available

8-VSB to ASI/SMPTE Converter
Model #: VSB-FRQ-200

Applications:
- 8-VSB RF Digital Reception
- TS Interface Conversion: ASI SMPTE-310M
- PSIP Modification
- QAM Modulator Feed
- Transferring DVB-ASI to DVHS tapes using Fire Wire Option

Product Features:
- Demodulates 8-VSB RF Signals to ASI and SMPTE-310M
- 8-VSB RF Input
- DVB-ASI and SMPTE-310M Inputs & Outputs
- IF Output Test Point
- (2) IEEE 1394 Fire Wire Outputs (optional)
- PSIP VCT User Modification
  - -Major Channel #
  - -Minor Channel #
  - -Station ID
  - -Transport Stream ID
- Stores TX VCT User Modified Parameters
- Performs PCR Correction and Null Packet Insertion/ Deletion with Fixed Output Rate at 19.392 Mbps
- Bypass mode to skip PCR Correction and Null Packet Insertion
- RS232 and Front Panel Control

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Digital Television Signal Processing

Low Cost 8-VSB Modulator

Model #: VSB-ENC-150E

Applications:

- Distributing Video on a Closed Circuit Television Network
- Video on Demand for Hotels or Resorts
- Generation of an 8-VSB Signal for Laboratory Testing
- Transport Stream Interface Conversion

Product Features:

- DVB-ASI and SMPTE-310M Inputs
- (3) DVB-ASI and (1) SMPTE-310M Output
- (1) 44.0 MHz IF 8-VSB Output Test Point
- PSIP VCT User Modification
  - Major Channel #
  - Minor Channel #
  - Station ID
  - Transport Stream ID
- Frequency Agile 8-VSB RF Output from 55 MHz - 858 MHz with 125 KHz Frequency Step Size
- RF Output Power Level Adjustment from 45 dBmV to 60 dBmV
- Performs PCR Correction and Null Packet Insertion / Deletion with Fixed Output Rate at 19.392 Mbps
- Bypass mode to Skip PCR Correction and Null Packet Insertion
- Loss of Transport Stream Alarm
- RS232 and Front Panel User Interface

Digital Channel Converter

Model #: DCC-150E

Applications:

- 8-VSB RF Digital Reception
- Distributing Video on a Closed Circuit Television Network
- Video on Demand for Hotels or Resorts
- Generation of an 8-VSB signal for Laboratory Testing
- Transport Stream Interface Conversion
- PSIP Modification

Product Features:

- Demodulates 8-VSB RF signals to DVB-ASI and SMPTE-310M
- 8-VSB RF, DVB-ASI and SMPTE-310M Inputs
- (3) DVB-ASI and (1) SMPTE-310M Output
- (1) 44.0 MHz IF 8-VSB Output Test Point
- PSIP VCT User Modification
  - Major Channel #
  - Minor Channel #
  - Station ID
  - Transport Stream ID
- Frequency Agile 8-VSB RF Output from 55 MHz - 858 MHz with 125 KHz Frequency Step Size
- RF Output Power Level Adjustment from 45 dBmV to 69 dBmV
- Performs PCR Correction and Null Packet Insertion/Deletion with Fixed Output Rate at 19.392 Mbps
- Bypass Mode to Skip PCR Correction and Null Packet Insertion
- Loss of Transport Stream Alarm
- RS232 and Front Panel User Interface

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