An Advanced Feature Satellite Receiver/Transcoder for Programmers and Cable Operators

**Product Overview**

The DSR-6100 Integrated Receiver/Transcoder is Motorola’s next generation commercial satellite receiver/transcoder, capable of transcoding one MPEG-4 HD service and outputting MPEG-2 HD and/or SD service (depending on authorization from uplink operator).

Packaged in a one RU chassis, the DSR-6100 comes equipped with industry standard output interfaces such as Gig-E and ASI that enable seamless connections to headend equipment. With advanced modulation support, the DSR-6100 supports DVB-S2 8PSK.

**Highlights Include:**

- MPEG-4 HD to MPEG-2 transcoding
- Simultaneous HD and SD output
- Advanced modulation support with DVB-S2
- Gig-E and ASI transport outputs
- Eight RF inputs (L-Band)
- AFD processing support
- Composite video and dedicated OSD output
- DigiCipher® II conditional access control
- Ethernet port for SNMP and web browser monitoring and control
- One RU chassis design
## Specifications

### L-BAND INPUT
- **Input Frequency:** 950 - 2150 MHz
- **Input Impedance:** 75 Ω
- **Input Connectors:** Eight (8) F-type F-Connector:
  - 16V DC min/450 mA
- **Port-to-Port Isolation:** 40 db (minimum)

### DIGITAL PROCESSING
- **Modulation Modes:** DVB-S2, DCII QPSK
- **Symbol Rates:**
  - DVB-S2: 30 Msps
  - DCII QPSK: 29.27 Msps
- **FEC Rates:**
  - DVB-S2: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
  - QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8

### COMPOSITE VIDEO OUTPUT
- **Frequency Response (NTSC):** ±0.9 dB, 1kHz - 4.2 MHz
- **Output Impedance:** 75 Ω
- **Output Level:** 1.0 V p-p ± 10%
- **Connectors:** Two BNC (one with OSD)

### AUDIO OUTPUT
- **Output:** Two stereo pair or four mono
- **Frequency Response:** ±0.5 dB, 20 Hz to 20 kHz
- **Output Impedance:** 50 Ω
- **Output Level:** ±16.0 dBu, ±1.0 dB into 600 Ω balanced
- **Connectors:** Quick disconnect screw terminal

### ETHERNET OUTPUT
- **Connector:** RJ-45
- **Format:** 10/100BaseT

### GIG-E INTERFACE
- **Connector:** RJ-45
- **Format:** 10/100/1000BaseT

### ASI INTERFACE
- **Format:** Asynchronous serial interface
- **Transmission:** Byte or packet mode
- **Standard:** CENELEC EN 50083-9
- **Connectors:** BNC (two out, one in)

### CONTACT CLOSURES
- **Number of Closures:** Four (1 alarm)
- **Type:** Form C

### PHYSICAL
- **Width:** 18.9 in (48 cm)
- **Depth:** 20.5 in (52 cm)
- **Height:** 1.65 in (4.2 cm)
- **Weight:** 12.5 lb (5.7 kg) approx
- **Operating Temperature:** 0 °C to 40 °C
- **Humidity:** 95%, relative maximum
- **Display:** Two line, 40-character LCD

### OTHER
- **Limited Warranty:** One year
- **Compliance:** UL listed/approved

For more information regarding any of these features contact your Motorola sales representative.

Features and functions subject to change without notice.