MOTOROLA

**AN ADVANCE FEATURE DIGITAL
SATELLITE RECEIVER/TRANSCODER FOR
PROGRAMMERS AND DIGITAL OPERATORS**

HIGHLIGHTS INCLUDE:

- MPEG-4 HD to MPEG-2 HD transcoding

- Advanced Modulation support with DVB-S2 and 8PSK Turbocode

- Gig-E and dual ASI transport outputs

- 1RU chassis design

- Eight RF Inputs (L-Band)

- Variable tuning from 4 MHz to 36 MHz

- VBI and Ancillary Data support

- DigiCipher® II conditional access control

- Quick disconnect screw terminals for easy installation

- ASI input

- 10/100 BaseT Ethernet port for SNMP monitoring and control

- Outputs NTSC video and analog audio for confidence monitoring

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

DSR-6050
Commercial Integrated Receiver/Transcoder

The DSR-6050 Integrated Receiver/Transcoder from Motorola brings revolutionary technology advances from a recognized leader in satellite program delivery. With the increased demand for HD services, programmers are looking for new distribution architectures taking advantage of emerging technology trends such as HD video processing, MPEG-4 AVC, and advanced modulation. The DSR-6050 is a next generation commercial satellite receiver, capable of transcoding MPEG-4 HD services into a MPEG-2 HD service output.

Packaged in a 1 RU chassis, the Motorola DSR-6050 comes equipped with industry standard output interfaces such as Gig-E and dual ASI outputs that enable seamless connections to head-end equipment. With advanced modulation support, the DSR-6050 supports 8PSK Turbo and DVB-S2 modulation.

TECHNICAL SPECIFICATIONS

L-Band Input

Input Frequency:	950 - 2150 MHz
Input Impedance:	75 Ω
Input Connectors:	Eight (8) F-type
LNB Power Out F-Connector:	16V DC min/450 mA
Port-to-Port Isolation:	40 db (minimum)

Digital Processing

Modulation Modes:	OQPSK, QPSK, 8PSK turbocodes, and DVB-S2
Symbol Rates:	3.25 to 29.27 Msps (QPSK), 1 to 30 Msps (8PSK turbocodes), 5 to 30 Msps (DVB-S2)
QSPK FEC Rates:	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8 (@3.25 to 29.27 Msps) 5/11 (@ 19.51 and 29.27 Msps)
8SPK (turbo) FEC Rates:	2/3 (1.9), 3/4 (2.05), 3/4 (2.11), 3/4 (2.19), 5/6 (2.30), 8/9 (2.40)
DVB-S2 FEC Rates:	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Eb/No:	4.0 db @ 19.5 Msps (FEC=3/4)

Composite Video Monitoring Output

Frequency Response (NTSC):	±0.9 dB, 1 kHz - 4.2 MHz
Output Impedance:	75 Ω
Output Level:	1.0V p-p ± 10%

Audio Monitoring Output

Output:	2 stereo pair or 4 mono
Output Level:	±16.0 dBm, ±1.0 dB into 600 Ω balanced
Impedance:	50 Ω
Connector:	Quick disconnect screw terminal

Ethernet Output

Ethernet Type:	10/100 Base T
Connector:	RF-45

Gig-E Output

Ethernet Type:	10/100/1000 Base-T
Connector:	RJ-45

ASI Output/Input

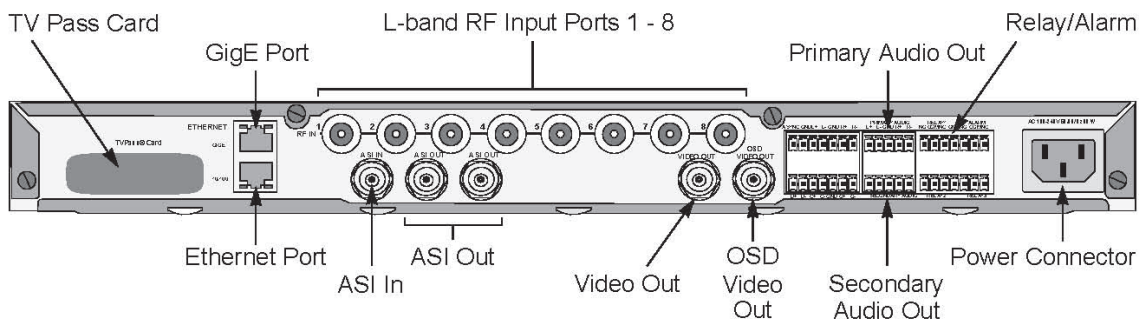|	
Format:	Asynchronous serial interface
Transmission:	Data byte and packet
Standard:	CENELEC EN 50083-9
Connectors:	BNC (2 Out, 1 In)

Contact Closures

Number of Closures:	4 (1 alarm)
Type:	Form C

Physical

Operating Temperature:	0° to 40°C
Humidity:	95%, relative maximum
Dimensions:	48 cm/18.90" (W) x 46 cm/18.11" (D) x 4.2 cm/1.65" (H)
Weight:	12 lbs (approx.)
Power Input:	100-240 VAC, 50-60 Hz, 60 W
Display:	2 line, 40 character LCD

Other

Limited Warranty:	One year
UL:	Listed/approved

TV Pass Card — GigE Port — L-band RF Input Ports 1 - 8 — Relay/Alarm — Primary Audio Out — Ethernet Port — ASI In — ASI Out — Video Out — OSD Video Out — Secondary Audio Out — Power Connector

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