

DSR-6050

COMMERCIAL INTEGRATED RECEIVER/TRANSCODER

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

Product Overview

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 1RU 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.



Highlights include

- MPEG-4 HD to MPEG-2 HD transcoding
- Advanced Modulation support with DVB-S2 and 8PSK Turbo
- 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 Base-T Ethernet port for SNMP monitoring and control
- Outputs NTSC video for confidence monitoring

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

General 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)
QPSK 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)
8PSK (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%

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

Specifications are subject to change without notice.

