M–RADIO

Modular and cost-effective Radio Satellite Receiver

- Modular design: up to three modules 1U 19'' rack
- Digital audio DVB-S/S2 multistream satellite receiver for SCPC/MCPC broadcast of audio, data
- 2 activated analog-audio-stereo balanced interfaces
- 2 activated AES/EBU-SPDIF audio balanced interfaces
- Supports industry standard ISO/MPEG layer II decoding
- Decodes 2 Stereo channels
- LAN interface for software upgrades
- Web browser and SNMP management
- 230/110 Vac/12 Vdc dual power supplies
- FAN hot-plug replaceable
- Relay alarm

M–Radio has been designed to be a cost-effective solution of modern radio stations that use satellite as a distribution method to the various FM transmitter sites.

It is suitable for the reception of signals transmitted with SAT DVBS/S2 modulation, in single or in multi-stream even with TS aggregates.

It can decode audio with the most commonly used standards and guarantees the correct management of delays, allowing perfect time synchronization in the reception stages, in areas with coverage from adjacent transmitters.

In addition to radio signals RDS allows you to receive content in different ways, adapting to different users' needs.

M-Radio is in a 1US 19" rack unit with dual power supply that allows easy installation and it is designed for efficient maintenance management.

Description	Modular hot-plug platform for content distribution
Standards	DVB-S/S2 multistream decoder: ETS300421 (QPSK), EN302307 (QPSK, 8PSK, 16APSK) Audio decoder: ISO/IEC 13818-2 (MPEG-2), ISO/IEC 14496-10 (MPEG-4), EN300472 (VBI) ASI: EN50083-9, AES/EBU
BOARD INTERFACES	
Input connectors	2 x F-type conn. 75 Ohm, 950-2250 Mhz w/ LNB control
Output connectors	Audio: 2 L/R stereo pair, balanced + and – outputs each, XLR male User Data: Async RS-232, 1200,2400,4800, and 9600, DB-9 female AES/EBU: 2 balanced XLR male ASI: 2 BNC 75ohm ASI-C
Output analog audio	Bilanced 600 Ohm XLR; Output Level -10 +6dBi
Output AES/EBU	Bilanced 110 Ohm XLR standard
Remote management	Separate 100Base-T Ethernet port Light-weight HTTP server for operation (configuration, firmware upgrade, cloning); SNMP
DATA PROCESSING	
SAT RECEIVER	
Frequency range	950-2250 Mhz w/ LNB control
Input level	-10 to 65 dBm
Symbol Rate	1-45 Msymb/s
FEC	all (auto)
DVB-S2 Mode	CCM, VCM, Multiple TS (ISI), Normal/Short FEC frames ISSY short/long, NPD, PLS Scrambling
Constellation	QPSK, 8PSK, 16APSK, 32APSK
AUDIO DECODER	
Decoder	Up to MPEG-2 MP@HL, MPEG-4 Part10 Level 4.1 and VC-1 MP@HL
Descrambling	BISS Mode-1 and Mode-E (InjectedId)
Audio	MPEG-1 layer I/II, MPEG-2 layer II, MPEG-2 HE-AAC, (Dolby® Digital AC-3 option on request)
SOFTWARE OPTION	
GENERAL DATA	
Power Supply	Single 230 or 110Vac-50Hz power supply ±10%, 60VA max. Single 12Vdc ±5%, 60W max. Optional dual 230/110V power supply
Operating Temp:	0 – 45°C
Humidity:	Up to 95% - Non condensing
Size:	19" W x 17" D x 1.75" H (483 x 432 x 44.5 mm)
Weight:	4.0 Kg
Control	SNMP, Web interface

M-RADIO BACK PANEL

ROVER BROADCAST
A STEP AHEAD IN DIGITAL TELEVISION