

HEAD END | RECEIVERS | MANAGEMENT & CONTROL | CONTENT DISTRIBUTION

TRS AUDIO SATELLITE RECEIVER

SCPC (NARROW BAND) & MCPC, MPEG LAYER 2

The TRS, DVB audio satellite receiver, demodulates MPEG audio from a DVB transport stream and was developed for both satellite distribution and contribution (f.e. re-multiplexing applications) networks.

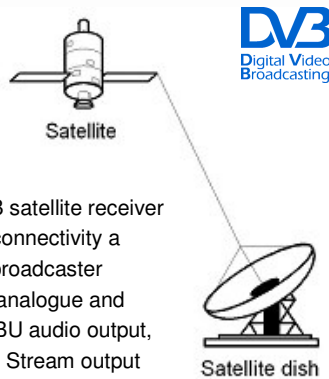
A standard available RS-232 serial output will support the transport of serial data in accordance to 6 different DVB formats and secures future expansion for data transport like RDS, private data, automation etc.

Main features:

- SCPC and MCPC operation (256 KSym/s – 30 MSym/s)
- MPEG Layer 2 decoder
- Digital AES/EBU and analogue audio output
- RS-232 data port for RDS data transport
- RDS data from MPEG ancillary data according German "IRT" format
- ASI output for re-multiplexing on DVB platforms
- Remote controllable over IP Ethernet port
- Supervising and alarm logging facilities for RF, Audio, TS, PID
- Qualified by Media Broadcast, Germany



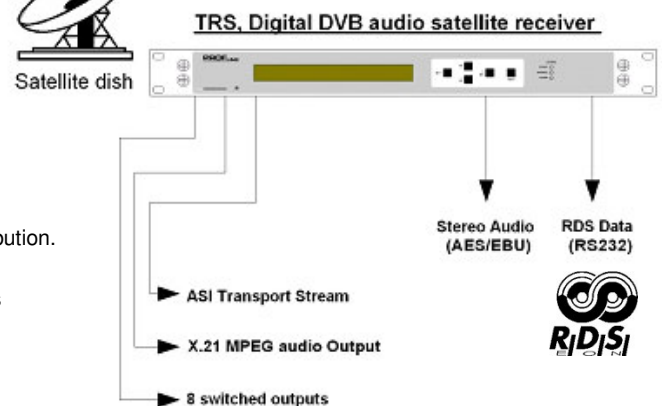
The TRS DVB audio satellite receiver responds to the demands from the professional broadcast market and was developed for both satellite distribution and contribution (f.e. re-multiplexing applications). It is built around a wide range satellite tuner with incorporated narrow bandwidth filtering to cover the range from 256 KSym/s to 30 MSym/s signals.



The TRS DVB satellite receiver offers all the connectivity a professional broadcaster requires like; analogue and digital AES/EBU audio output, ASI Transport Stream output and a RS-232 serial output for RDS data transport.

Transparent RDS data transport is vital for the professional radio broadcasters using satellite distribution. The TRS is therefore capable of retrieving up to 6 different formats of RDS data transport.

One of the latest formats is the extraction of ancillary data from the MPEG stream. This format is in accordance to the recommendation "Extensions to TR 101 154: Digital Video Broadcasting (DVB); Implementation Guidelines for the use of MPEG-2 Systems, Video and Audio in Satellite, Cable and Terrestrial Broadcasting Applications".





TECHNICAL SPECIFICATIONS

SATELLITE INPUT

| | |
|----------------------------|----------------------------|
| Complies to: | ETS 300421 (DVB-S) |
| RF frequency range: | 950 to 2.150 MHz |
| Input level: | -80 dBm to -30 dBm |
| VSWR: | > 10 dB |
| Input connector: | F-female |
| Output connector: | F-female |
| Impedance: | 75 Ω |
| Symbolrate: | 256 Ksym/s -30Msym/S |
| FEC: | 1/2 , 2/3 , 3/4 , 5/6, 7/8 |

AUDIO SPECIFICATIONS

| | |
|-----------------------------------|------------------|
| MPEG Decoder: | Mpeg Layer 2 |
| Digital level reference: | -6 dBFS (100%) |
| Volume settings (ref.): | -20 dB to +12 dB |
| Frequency 30 Hz to 20 kHz: | < 0.5 dB |
| SINAD @ 6 dBm: | -72 dB |
| THD (IEC): | -85 dB |
| Analogue audio out: | XLR, 30Ω |
| Digital AES/EBU out : | XLR, 110Ω |

DATA OUTPUT:

| | |
|---------------------|---|
| Port type: | RS232, N-8-1. |
| Data rate: | 9K6, 19K2, 38K4 Baud |
| Data format: | 4 types of Private data, 2 types of ancillary data (J. 52 and IRT/DVB recom. TR 101 154) |

ASI OUTPUT (OPTION)

| | |
|-------------------|------------------------|
| Format: | DVB EN50083-9 (DVB-PI) |
| Speed : | 270 Mbps |
| Connector: | BNC 75Ω |

IP PORT (OPTION)

| | |
|-------------------|--------------------|
| Port type: | RJ45 LAN Ethernet |
| Datarate : | TCP/IP 10/100 Mbps |

ALARM CONTACTS

| | |
|---|---------------------------|
| Number of relays (status/alarm): | 3 |
| Contacts: | change over (N.O. – N.C.) |

MISCELLANEOUS

| | |
|----------------------------|--|
| LNB voltage supply: | 13 Volt selectable on/off, Universal LNB, ≤250 mA |
|----------------------------|--|

GENERAL

| | |
|---------------------------------------|---|
| Main power: | 100 - 240 VAC, 50/60 Hz, maximum 30 Watt |
| Power connection: | IEC panel-mount/fuse 2.5 AT |
| Safety and EMC: | According CE regulations |
| Operation ambient temperature: | 5 - 45 °C (storage -5 to 65 °C) |
| Housing: | Standard PROFline housing |
| Housing dimensions: | 19 inch x 1u x 300 mm (depth) |
| Weight: | 5 kg |

CORPORATE HEADQUARTERS:

50 Frank Nighbor Place, Kanata, ON, Canada K2V 1B9
Tel: 613-596-4120 Fax: 613-596-4863
Email: sales@datacast.com www.datacast.com

All specifications subject to change. Printed in Canada. 03/08.

International Datacasting Corporation

EMEA Office:

Marga Klompélaan 18, 6836 BH Arnhem, The Netherlands
Tel: +31 (0) 26 323 69 69 Fax: +31 (0) 26 323 39 52
Email: salesemea@datacast.com www.datacast.com

