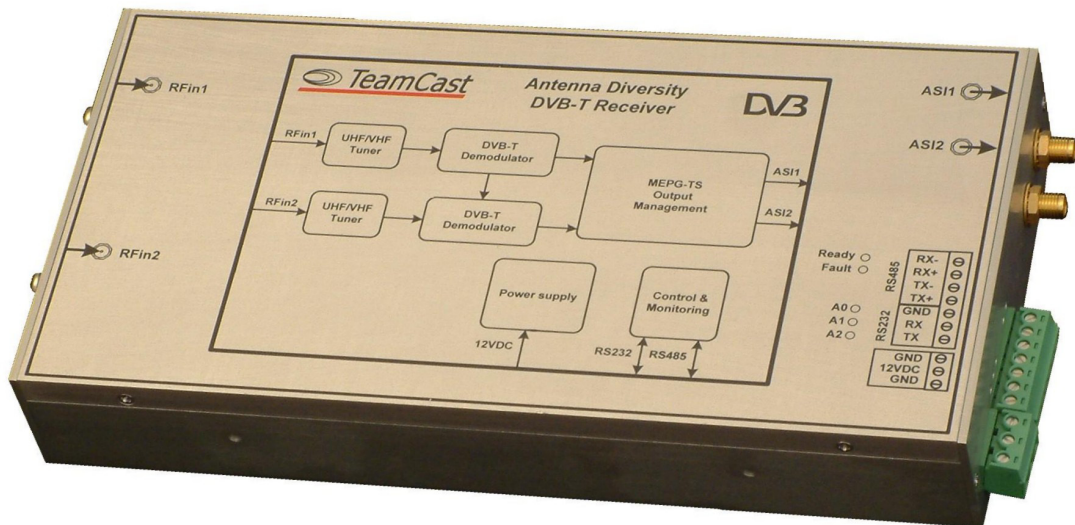


TeamCast **Antenna Diversity DVB-T Receiver**

RXT-1000: A cheap solution for reliable DVB-T reception in difficult environments



Description

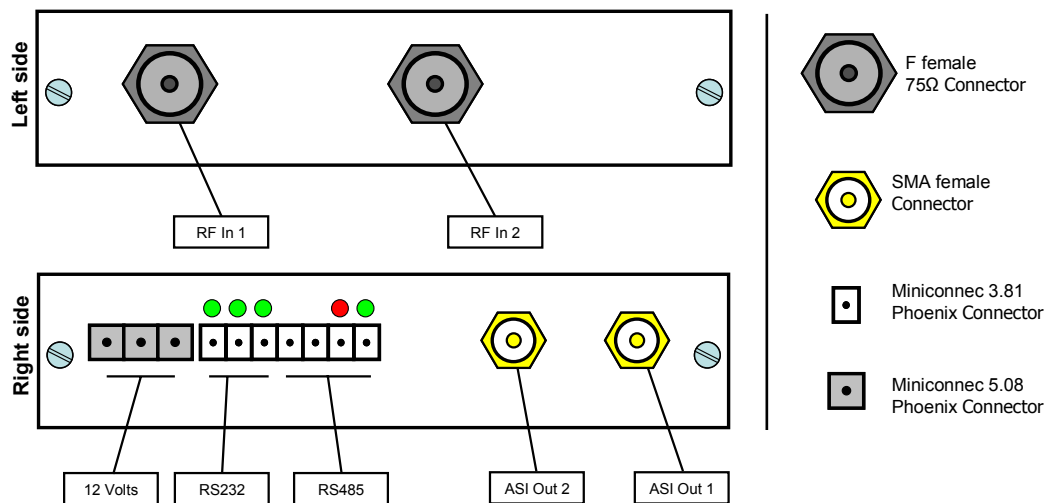
RXT-1000 is a low cost DVB-T professional receiver, addressing the OEM market, especially designed to operate in difficult reception environments. RXT-1000 takes benefit of the spatial diversity provided by its two demodulators coupled with two independent antennas, to provide reliable reception even in the worst RF situations experience in transmission sites, Electronic News Gathering vehicles (ENG), or mobile applications. The RXT-1000 compact size, make it easy to integrate in DVB-T transmitters, monitoring system or ENG equipment. RXT-1000 belongs to the ModulCast product range delivered by TeamCast to the professional broadcast market. The Modulcast family includes modulators, professional receivers, up-converters and synthesizers, all packaged as ready-to-integrate modules and providing very high-performance core technologies to the broadcast market actors.

Key Features

- Antenna diversity DVB-T receiver compliant with ETS 300744
- All DVB-T modes supported
- 6, 7 and 8 MHz RF channel in VHF Band III or UHF band IV & V
- 4 modes of operation:
 - Dual channel
 - Antenna diversity
 - Hierarchical demodulation, (LP & HP demodulation)
 - Redundant receiver
- Monitoring capabilities (MER, BER, RF level, ...)
- ± 350 KHz automatic frequency correction
- RS232 or RS485 control and monitoring
- Compact size for OEM integration (220 x 110 x 35 mm)
- Single 12V supply voltage

TeamCast Antenna Diversity DVB-T Receiver

Connectors



Specifications

- **RF Inputs**
 - VHF Band III (Ch 5 to 12) and UHF band IV & V (Ch 21 to 69)
 - 6, 7 and 8 MHz RF channel,
 - Min. Input level : $< 92 \text{ dBm}$ (for QPSK - CR 2/3 at BER = $2 \cdot 10^{-4}$)
- **Demodulator**
 - Use of the DIBCOM chip, optimized for difficult channels
 - All DVB-T modes supported including hierarchical ones
- **Operation modes**
 - *Dual channel*: the module is used as a double receiver running independently
 - *Antenna diversity*: the 2 demodulator are cascaded together bringing an improvement around 6 dB and doubling the maximum reception limit speed
 - *Hierarchical*: the module demodulates simultaneously the LP & HP data streams
 - *Redundant*: the module demodulate 2 RF channels and selects either manually or automatically the best receiving channel
- **MPEG-TS Outputs**
 - 2 x ASI outputs for RXT0 reference (Compliant with EN50083-9)
 - 1 x SPI output (MPEG-TS parallel interface) for the RXT1 reference
- **Control & Monitoring**
 - RS232 & RS485 control port with ASCII protocol
- **Physical**
 - Supply voltage: 12 V
 - Compact aluminium package (220 x 110 x 35 mm) with very low thermal resistor
 - Operating temperature range: 0°C to 50°C

Ordering Information

~TCM-RXT0-1010	Single channel DVB-T receiver, ASI out
~TCM-RXT0-1020	DVB-T antenna diversity receiver, ASI out
~TCM-RXT1-1020	Antenna diversity receiver, SPI out

Contact

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