

Datasheet



CRT10811RD-S2-IP Compact Size 8-channel Integrated Receiver Decoder

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1 General information 1.1 Description

CRT1081IRD-S2-IP is a compact size 8-channel integrated receiver decoder. It combines 8 full featured DVB-S2 receivers with Common Interface for descrambling services, ASI output interfaces and 1Gbit Ethernet port for transport of DVB services over IP networks, all in one 1U case. Such a compact and high integrated solution lets you build your network central station with an exceptional efficiency. WEB control interface lets you control all the system no matter where you are at the moment. Industry standard DVB-ASI or IP output interface makes it easy to serve Digital Video/Audio programs of MPEG2 or H.264 type to DVB multiplexers, IPTV networks etc.



1.2 Technical Specifications

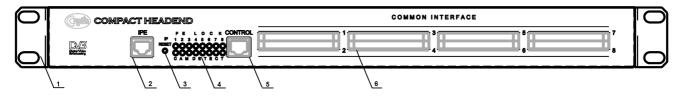
Number of channels Receiving frequency range Input signal level Nominal RF input impedance Connector type Modulation SR FEC **Common Interface** Number of channels Specification **DVB-ASI Output** Number of channels Specification Output impedance Connector type **Operation modes** Maximum output bit rate **DVB- over- IP** Specification Streaming protocols Number of multicast streams Number of unicast connections Network interface **Power supply** Supply voltage, VAC Supply frequncy, Hz Environment Nominal temperature, °C Maximal relative humidity, % **Dimensions** Width, mm Length, mm Heigth, mm

8 950-2150 MHz -65~-25 dBm 75 Ohm IEC, F-type QPSK, 8PSK, 16APSK 1-45Msps(QPSK,8PSK), 1-36Msps(16APSK) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10 8 EN50221, ETSI TS 101699 8 EN 50083-9 75 Ohm IEC 169-8, BNC-type Packet, 188 byte 213 Mbps ETSI TS 102034 RTP, UDP 64 (SPTS) 8 (MPTS) **1Gbit Ethernet** 90-264 47-63 10 - 3080 485 300 44



2 Physical Description

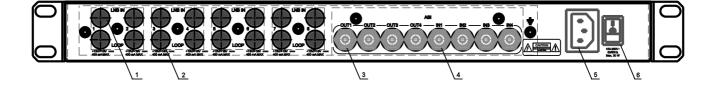
2.1 Front View

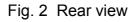




- 1. Front panel with mounting holes;
- 2. 1Gbit Ethernet port for IP streaming of DVB services;
- 3. Device network settings RESET button;
- 4. LEDs for tuners lock and CAM modules insertion indication;
- 5. 100Mbit Ethernet port for device control;
- 6. Common Interface slots for CAM modules.

2.2 Rear View





- 1. 8 LNB inputs of DVB-S2 receivers;
- 2. 8 LNB Loop outputs of DVB-S2 receivers;
- 3. 8 DVB-ASI outputs of DVB-S2 receivers;
- 4. Power socket;
- 5. Power switch.



3 Functional block diagram

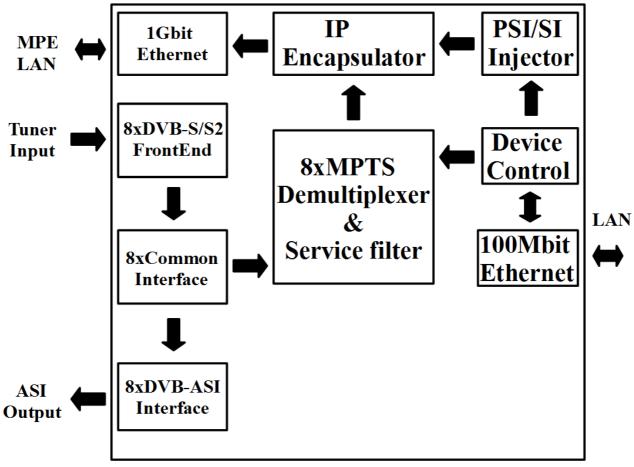


Fig. 3 Functional block diagram

- 1. 1Gbit Ethernet is used to connect the device to the transport DVB-over-IP network;
- 2. IP incapsulator performs packing of DVB services into IP for network delivery;
- 3. **DVB-ASI interface** provide classical data exchange capability of Head-End equipment;
- 4. DVB-S/S2 FrontEnd supply into the system services from the satellite;
- 5. Common Interface let the CA protected services to be opened with the CAM;
- 6. **MPTS Demultiplexer&Service filter** provide the ability to only select programs required for re-broadcast;
- 7. **PSI/SI Injector** provide the new made multiplexes with proper DVB SI and MPEG PSI stream and program information;
- 8. Device control let you make all the device settings with embedded Http(Web) server;
- 9. 100Mbit Ethernet connects the device to the HeadEnd control network.