

Dual Tuner SkyDSR™ Router



Overview

The **SkyDSR-DT** is Cerona's latest offering in the DVB-S2 receiver products. The DT is a dual tuner receiver that can be used to look at two different transponders simultaneously, or can be used as a fully redundant receiver acting as a primary with on-line backup capabilities. The DT is available in a 1 RU rack mount chassis and provides media-rich broadband IP data at speeds up to 80 Mbps per tuner or 160 Mbps in the aggregate when used on multiple transponders. The SkyDSR-DT is part of Cerona's Sky Digital family, which is the most comprehensive end-to-end DVB broadband IP solution available.

The SkyDSR works with any DVB IP Encapsulator, including Cerona's own Digital Gateway Router. The SkyDSR receives and decodes a multiplexed DVB broadcast transport stream comprised of MPE (Multi-Protocol Encapsulation) IP data and delivers it via a high-speed Ethernet connection to the desktop.

Whether "turbo charging" an existing VSAT network or eliminating Internet bottlenecks, the SkyDSR is ideally suited to applications such as:

Streaming audio & video

Retail Kiosks

Distance Learning

Web caching

Digital Signage

Multiple Transponder Reception

High-speed internet delivery

Content Distribution

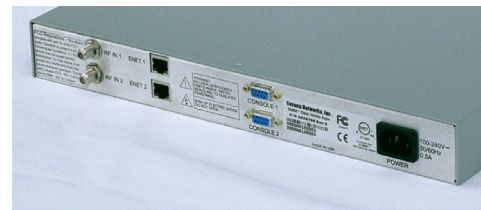
Corporate LAN/WAN interconnection

IP Multicasting

IPTV



The DT is based on Cerona's proprietary DVB-S2 broadband router module architecture, which offers up to 80Mbps in a fully routed implementation, and is backward compatible with existing DVB-S networks, a tremendous cost saver during network upgrades to DVB-S2.



DT shown here as a non-redundant unit, but can easily be fitted with dual power supplies for full redundancy.

Product Highlights:

- Fully DVB-S/S2 compliant MPE IP data
- IGMP and DHCP support
- Unicast and multicast IP data support up to 80Mbps
- External set-top-box architecture for easy installation and support (rack mountable)
- Fully HTTP web manageable
- SNMP MIB II and private MIB management
- Extended L-band receiver (950-2150 MHz)
- Caching model available (up to 2 TB storage)
- ASI transport stream (optional)

Markets Served:

- Corporate Private Networks
- Military
- SME
- SOHO
- COTM – Communications on the Move

Technical Specifications Per Receiver Board

DVB Features:

- DVB-S2 compliant (EN 302 307)
- DVB-S compliant (EN 300 421)
- Compliant with DVB and Multiprotocol standards EN301 192 and ETS 300 468
- Supports 128 simultaneous Packet Identifiers (PIDs)
- Multicast and Unicast support

Satellite Features:

- Symbol Rate: 2 to 45Msps DVB-S
- Symbol Rate: 2 to 30Msps DVB-S2
- LNB Power: +13VDC or +18VDC (up to 500 mA) or No Output
- Extended L-band: 950MHz to 2150MHz
- DVB-S2: Auto Code Rate Detection
- DVB-S2: Auto Spectral Detection
- DVB-S2: Auto Pilot Mode Detection
- Modulation: QPSK/8PSK

Interfaces:

- 10/100BaseT Ethernet port, RJ45
- RS-232 console terminal port, DB9
- Satellite L-band input terminal - provides power to LNB (F-type connector)
- ASI output (optional)

Code Rates:

DVB-S – 1/2, 2/3, 3/4, 5/6, 7/8 - QPSK

DVB-S2 – 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 - QPSK

DVB-S2 – 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 - 8PSK

Management:

- Fully HTTP Web Manageable
- Satellite Network Upgradeable (with Maestro™)
- FTP Upgradeable
- IGMP
- SNMP MIB II and Private MIB Management
- DiSeqC 2.X Compliant
- Telnet

Dimensions:

- L=14" X W=19" X H=1.75" (19" Rack Mount and 1 RU tall)

Environmental:

- Reduction of Hazardous Substances (RoHS) compliant (Directive 2002/96/EC)
- Temperature: 0° C to 60° C
- Humidity: 5% to 95% non-condensing

Power:

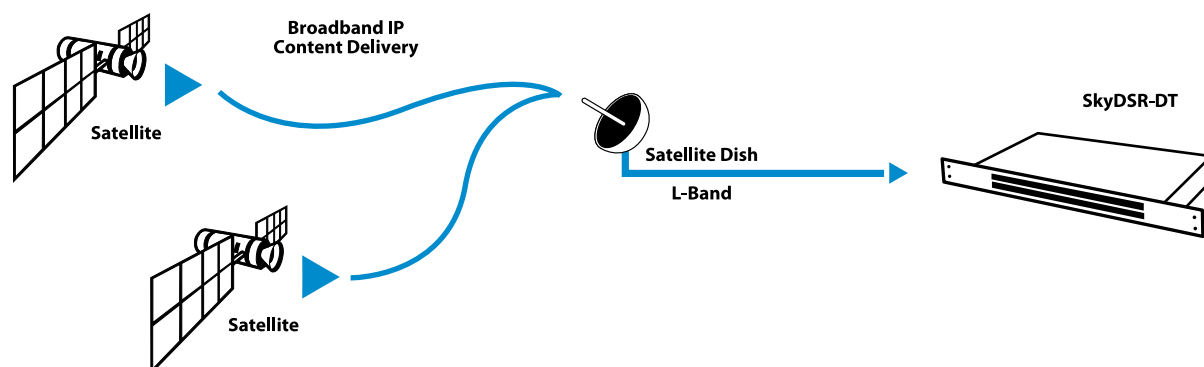
- 50-60Hz 110-220VAC auto-sensing AC input
- Consumes 20 Watts if sourcing LNB, and 10 watts without LNB

Safety and Emissions:

- Complies with UL 60950-1, CSA C22.2 No. 60950-1 and CE safety standards
- Complies with FCC Class A and CE emission standards

SkyDSR-DT

IDU=Indoor Unit IRD=Integrated Receiver Decoder



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