

# SkyDGR™ Digital Gateway Router

DVB IP Encapsulator



## Overview

The **SkyDGR – Digital Gateway Router** is Cerona's newest addition to its growing line of satellite network solutions. The SkyDGR is a Linux-based fully compliant DVB IP Encapsulator. The SkyDGR encapsulates IP data into MPEG-2 packets and creates a DVB-compliant transport stream for broadcast over a variety of digital transmission systems. Applications include high-speed Internet delivery, streaming audio and video, distance learning, corporate LAN/WAN interconnection, and Web caching.

The SkyDGR is ideally suited to provide media-rich broadband IP content streams to a satellite uplink facility, cable headend, multisystems operator (MSO) or corporate data center over satellite, cable and fixed wireless infrastructures.

## Embedded Architecture

By virtue of its Linux server design, the SkyDGR eliminates common problems associated with many NT based encapsulator solutions such as "blue screen" lock-ups and incompatible application software. The SkyDGR's Linux system allows changes in quality of service (QoS) and service type in real-time, without service outages.

The SkyDGR delivers IP data directly to a satellite, cable, or wireless broadcast modulator for output to any DVB compliant receiver, including Cerona's own satellite SkyDSR satellite router. The SkyDGRs, in tandem with Cerona's complete line of high-speed data receivers, offer an unparalleled end-to-end broadband IP solution.

## Product Highlights:

- Fully DVB compliant, MPE (multi-protocol encapsulation)
- Unicast and multicast support
- Linux server platform
- Fault-tolerant triple processor design of traffic carrying main-processor with hot-swap capability
- Dual-load sharing power supplies
- Dual ASI and RS-530 WAN interfaces
- Fully HTTP web manageable
- SNMP MIB II and private MIB management
- 2RU rack mountable system

## Product Applications:

- IP multicasting and data broadcast/push
- Software distribution (guaranteed file broadcasts)
- E-commerce
- Stock market and news feeds
- Fast Internet (Unicast) services
- Streaming video and audio

## Technical Specifications

### DVB Features:

- DVB compliant per EN301 192 and DVB output compliant with ETS 300 468
- Program Allocation Table and Program Map Table support
- User-selectable DVB/MPEG-2 188 or 204 data packet sizes

### Data Handling Features:

- IP to MPE/DVB
- Smoothing algorithm for better transport stream characteristics
- Back pressure for full link utilization
- Multicast and Unicast support (including Multicast zones)
- Bandwidth management and allocation
- Real-time setting of aggregate bandwidth

### Management:

- Fully HTTP Web Manageable
- FTP Upgradeable
- ICMP
- SNMP MIB II and Private MIB Management

### Standard Interfaces:

- 10/100BaseT Network Interfaces, RJ-45
- Dual copper Asynchronous Serial Interface (ASI) outputs (BNC)
- Dual RS-530 outputs
- RS-232 Terminal Diagnostic Port per processor

### Dimensions:

- 1 RU Server Platform, H 1.75" x W 17.5" x L 19"

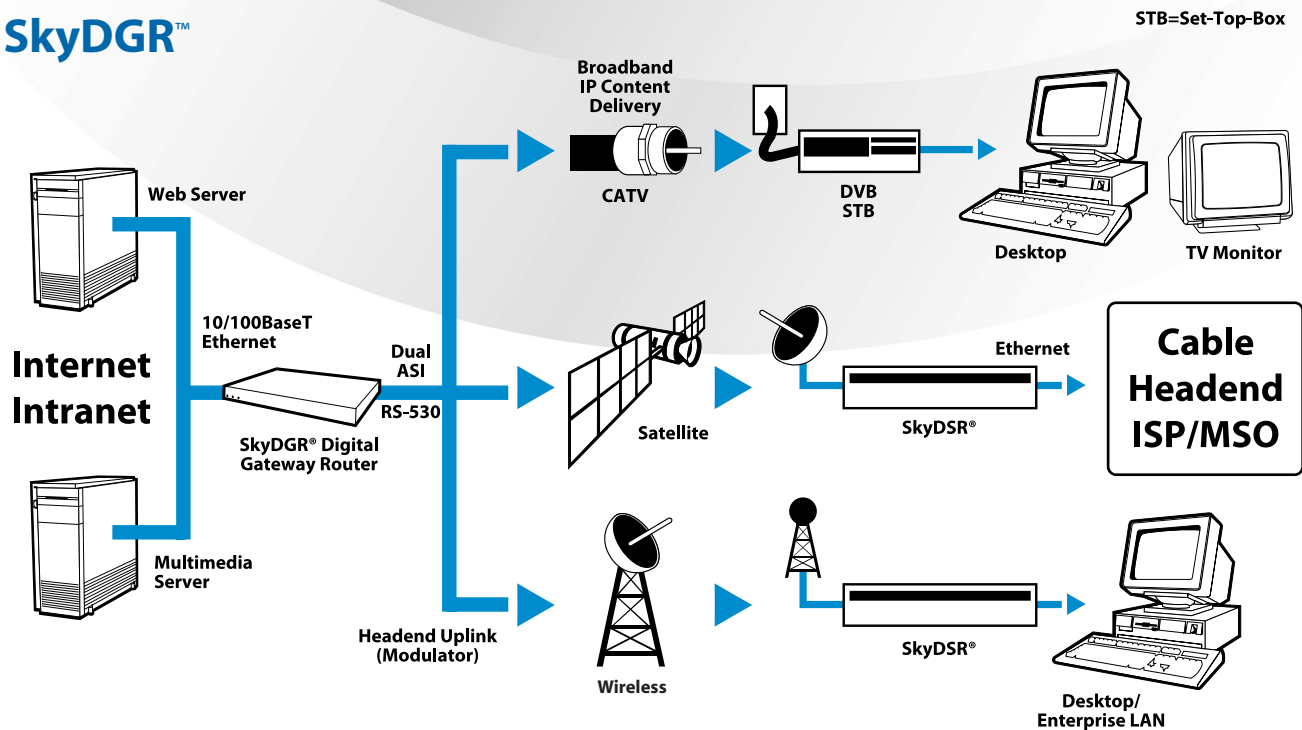
### Environmental:

- Temperature: 10° C to 50° C
- Humidity: 5% to 95%

### Power:

- 115/220 volts, 1.9A @5V~10 watts, 50/60 Hz

## SkyDGR™



### Cerona Networks, Inc.

5235 Westview Drive, Suite 103, Frederick, MD 21703

Web: [www.cerona.com](http://www.cerona.com) Email: [sales@cerona.com](mailto:sales@cerona.com) Phone: 240.215.4728 Fax: 301.620.1889