CMR-8500 IP Encapsulator
New Product Introduction
Product Bulletin
April 14, 2008

Comtech EF Data is pleased to introduce the next generation DVB IP Encapsulator, the CMR-8500. This new product is built on a professional 1RU rack-mountable, embedded platform that has been tuned for high speed data applications. With two Gigabit Ethernet inputs and dual ASI outputs, the CMR-8500 is capable of total network throughput up to 155 Mbps and an aggregate packet processing of 140,000 packets per second. The value and performance are unrivaled in the industry.

The CMR-8500 provides customers with a migration path from DVB-S applications to higher speed applications using DVB-S2. The product offers the following features:

- Next Generation Hardware Platform
- High Speed Processing
- Support for 80,000 Routes
- 1:1 Redundancy Support
- Easy to Configure
- Simple Network Management Protocol (SNMP) Support
- Custom Optimization of Section packing

Next Generation Hardware Platform
The CMR-8500 was designed from the ground up, utilizing the latest technology in high-speed packet processing on an embedded platform. The unit is equipped with two Gigabit Ethernet interfaces that are dedicated to processing high speed incoming traffic, and a Fast Ethernet interface that is dedicated to management and control. Decoupling the data and management interfaces provides additional flexibility and security for the network architecture, while maximizing performance.

High Speed Processing
The CMR-8500 utilizes an advanced microprocessor designed to deliver world class packet processing power. With packet rates in excess of 140,000 packets per second and high speed data delivery rates exceeding 155 Mbps, the CMR-8500 is well suited for applications that demand the highest possible throughput.

Support for 80,000 Routes
For applications that utilize a high speed DVB outbound carrier to serve VSAT clients, the CMR-8500 offers customers the flexibility to increase network density with support for up to 80,000 routes configured simultaneously to maximize the number of clients supported in a single DVB outbound carrier.

1:1 Redundancy Support
For mission critical applications, the CMR-8500 supports 1:1 redundant operation. When functioning in redundant mode, the backup unit's output is muted. Once an event is triggered that causes the switch over, the primary unit automatically mutes when the secondary unit comes online.

Ease of Use
The CMR-8500 was designed with ease of use and quick setup in mind. Once the management interface is configured using the front panel interface, the user may use the advanced user-friendly web interface to complete the setup process and save time.

SNMP Support
Enabling proactive management, the CMR-8500 supports a variety of SNMP commands. Both a public MIB II and a private MIB are available to allow full management and control via SNMP. For customers who wish to automate management and control functions, the CMR-8500 offers a complete command and control interface via SNMP, featuring a range of functions –from automating configuration changes and polling current status to proactive notification of alarms via SNMP traps.

Custom Optimization of Section Packing
Section Packing is configured on a per route basis and is designed to maximize throughput for applications that utilize smaller packets. Addressing customer requirements, the CMR-8500 provides a user-defined setting that defines the maximum time a packet will be delayed during the section packing routine. This feature provides the user with complete control over the delay to fully optimize the output and fine tune latency.

For additional detail on the new IP Encapsulator, please refer to the datasheet and user documentation available on our web site, www.comtechefdata.com. To place your order, please contact your Comtech EF Data sales associate.


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