CDM-710 Broadcast Satellite Modem
Expanded Functionality

Product Bulletin
December 19, 2006

Comtech EF Data is pleased to announce that the functionality of the CDM-710 Broadcast Satellite Modem is now expanded. Below is a summary of the available enhancements.

Demodulator

The CDM-710 now includes a DVB-S2 compliant demodulator in its lineup. The demodulator configuration features a DVB-S2 Low Density Parity Check (LDPC) decoder with near Shannon limit performance.

Providing the flexibility to support a range of broadcast connectivity, the available configurations for the CDM-710 are:

- Modulator only
- Demodulator only
- Full duplex modem

All three configurations are housed in the same 1RU chassis with either 70/140 MHz or L-Band support.

32-APSK

32-Ary Amplitude and Phase Shift Keying (APSK) is the most spectrally efficient type of modulation specified in the DVB-S2 specification. Previously, the CDM-710 Broadcast Satellite Modem supported QPSK, 8-PSK and 16-APSK modulation. With the release of software version 2.2.1, the CDM-710 now also supports 32-APSK. Installed systems can be upgraded to add support for 32-APSK via the v2.2.1 software update and a FAST (Fully Accessible System Topology) upgrade. For a complete list of supported modulation techniques, please refer to the CDM-710 datasheet.

DVB-S2 Symbol Rate Increased

With the release of software version 2.2.1 and associated pricing tiers, the symbol rate for DVB-S2 operation is increased. When running in the DVB-S2 mode, the supported symbol rates are now as follows:

- 45 Msps – QPSK and 8-PSK
- 35 Msps – 16-APSK
- 28 Msps – 32-APSK

The increased symbol rate extends the upper end of operation for DVB-S2 mode from 104 Mbps to 122 Mbps.

To learn more about the CDM-710 Broadcast Satellite Modem, please refer to the datasheet and user documentation available on our web site, www.comtechefdata.com. For additional information about upgrades or to place your order, please contact your Comtech EF Data sales associate.

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