



CDD-564 & CDD-564L Software Release v1.5.3

Product Bulletin
Revised – April 4, 2006

Version 1.5.3 is now available for the CDD-564 and CDD-564L Quad Demodulators. This release includes new functionality for enhanced operation, and is summarized below.

Expanded Data Rate Support

The CDD-564 (70/140 MHz model) & CDD-564L (L-Band model) now support operation up to 9.98 Mbps and 3 Msps. The new data rates can be achieved via FAST options, but are dependant on modulation and forward error correction as follows:

Forward Error Correction	Modulation	Data Rate Range
Turbo Product Coding	QPSK Rate 3/4	16 kbps to 4.5 Mbps
Turbo Product Coding	QPSK Rate 7/8	16 kbps to 5.25 Mbps
Turbo Product Coding	QPSK Rate 0.95	16 kbps to 5.66 Mbps
Turbo Product Coding	8-PSK Rate 3/4	16 kbps to 6.75 Mbps
Turbo Product Coding	8-PSK Rate 7/8	16 kbps to 7.875 Mbps
Turbo Product Coding	8-PSK Rate 0.95	16 kbps to 8.5 Mbps
Turbo Product Coding	16-QAM Rate 3/4	16 kbps to 9.0 Mbps
Turbo Product Coding	16-QAM Rate 7/8	16 kbps to 9.98 Mbps

Modulators already deployed can be easily field-upgraded to support the higher data rates. Simply load the new software version and contact your Comtech EF Data sales associate to order your FAST upgrade (additional charge is applicable).

Configuration & Management

- The parameter file stored in flash now includes all parameters for the entire system.
- Supports Classless Inter-Domain Routing (CIDR) or the aggregation of networks into “supernetting” of IP addresses.
- A single working mode command was created, allowing for simplified mode switching
 - Router – Small Network
 - Router – Large Network
 - Router – Point-to-Point
 - Router – Vipersat
 - EasyConnect

Enhancements Applicable to Vipersat Management System (VMS)

For systems utilized in VMS configurations, the following features are available with v1.5.3:

- Vipersat File Stream (VFS) Support – The CDD-564/L supports VFS. Refer to Comtech Vipersat Networks’ documentation for additional information.
- By utilizing the Vipersat Management System Vload application, the demodulator now supports the ability to change the working configuration without changing the parameter file stored in flash.

- Burst Fast Acquisition – This feature provides a dramatic reduction in the burst acquisition times when running a Vipersat STDMA channel in QPSK 3/4 or 7/8 for data rates of 64 kbps to 256 kbps. Please refer to the manual for details.
- 24 Bit HDLC CRC – To improve reliability on a bursting STDMA channel, an extra byte of HDLC CRC was added when in Vipersat mode. If using this function, all systems in the satellite link must be operating with v1.5.3 or later.

Obtaining the New Software

This new software can be downloaded from our web site, www.comtechefdata.com under the “Downloads” section.

For additional detail on the features described above, please refer to the user documentation for the CDD-564 and CDD-564L Quad Demodulators.

If you have any questions about this announcement, please contact your Comtech EF Data sales associate.

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