



IP Module for CDM-570 & CDM-570L Software Release v1.5.2.1

Product Bulletin
October 5, 2005

The IP Module Version 1.5.2.1 is now available for CDM-570 and CDM-570L Satellite Modems. Included in this release are several features that expand the functionality of the IP-Enabled Modems and provide additional compatibility with other Comtech products. Version 1.5.2.1 is now available on our web site, www.comtechefdata.com under the "Downloads" section. Below is a summary of the new features.

1:1 Redundancy

For IP-Enabled CDM-570 and CDM-570L units in non-Vipersat configurations, IP redundancy is now available. The purpose of our 1:1 Redundancy Switches is to continuously monitor a pair of modems in a redundant configuration, so that the unit automatically switches data and IF signals from the failed unit to the standby unit if an equipment failure or undesired traffic condition occurs. For the CDM-570L, we offer the CRS-170A 1:1 L-Band Redundancy Switch. And, for the CDM-570 (70/140 MHz) Modem, we offer the CRS-180 1:1 Redundancy Switch.

For more detail, please refer to the CRS Series 1:1 Modem Redundancy Switches datasheet on our web site.

Vipersat Management System v3.x Compatibility

The IP-Enabled CDM-570 and CDM-570L are fully compatible with our sister division's, Comtech Vipersat Networks, Vipersat Management System (VMS) Version 3.x. VMS v3.x can enable and control the CDM-570/570L Satellite Modems, switching from shared to dedicated dynamic private circuits. Inbound transmissions from remotes can be switched manually, automatically, by application, by data load, or on a scheduled basis from a shared Selective Time Division Multiple Access (STDMA) mode to a dedicated Single Carrier Per Channel (SCPC) connection. VMS 3.x also supports the integration of Vipersat's Circuit Scheduler (VCS), providing users with the ability to schedule SCPC connections through a web-based interface.

STDMA Dynamic-Dynamic (D2) with GIR

D2 w/GIR allows individual remotes to have guaranteed bandwidth up to its set individual limit. If the remote is below its capacity, bandwidth can be distributed to other terminals.

Entry Channel Mode (ECM)

ECM is a quick service entry point where each remote upon first acquisition immediately switches into SCPC mode. ECM provides for a smaller STDMA channel, facilitating larger quantities of remotes in the spin.

VESP Support

VESP is Vipersat External Switching Protocol. This is an API that allows third party equipment to request bandwidth from the VMS.

CodeCast

The IP Module firmware can now be easily upgraded in geographically dispersed modems. By utilizing the Vipersat Management System Vload application, upgrades to multiple modems can be simultaneously pushed out to remote modems, and the modems can be rebooted in order to begin using the latest firmware. This functionality eliminates the need for on-site personnel to perform upgrades, and is particularly useful where receive-only modems are located in distant or inaccessible locations.

Auto WAN Scaling

The CDM-570/L Satellite Modems with IP Module are now more tightly integrated with the Comtech EF Data *turboVR*[™] Router with Acceleration. The IP-Enabled Modems allow for automatically scaling wide area network (WAN) bandwidth between the *turboVR* and the modem interfaces. And, for expanded integration, Auto WAN Scaling is compatible with the Vipersat Management System switching infrastructure to allow the *turboVR* to update based on a remote modem switching between SCPC and STDMA modes.

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

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