



CDM-600L & CLM-9600L New Forward Error Correction, Modulation & Software Release v1.3.0

Product Bulletin
March 30, 2005

Revolutionary Forward Error Correction & Modulation

Comtech EF Data recently introduced a new Forward Error Correction codec, based on Low-Density Parity-Check Codes (LDPC), and a new modulation technique, 8-QAM for the CDM-600 Satellite Modem. We are pleased to announce the availability of these technologies on two additional Comtech EF Data Satellite Modems, the CDM-600L and CLM-9600L.

LDPC takes performance to new heights, surpassing even our 2nd Generation Turbo Product Coding, previously the industry's most bandwidth efficient Forward Error Correction (FEC). When utilized in networks with lower FEC coding rates and higher data rates, the power and bandwidth savings offered by LDPC are most apparent.

Additionally, the new modulation technique, 8-QAM, exhibits far superior performance compared with conventional 8-PSK. The techniques for acquiring and tracking 8-QAM signals are the subject of a pending patent application filed by Comtech EF Data. When LDPC and 8-QAM are combined, satellite transponder utilization can be maximized, resulting in minimized operating expenses. As an example, compared with the current industry standard 8-PSK, LDPC and 8-QAM can reduce satellite link power by 40%, while saving 10% bandwidth.

More Information

We developed a white paper that provides more detail on how Low-Density Parity-Check Codes and 8-QAM Modulation can provide you with bandwidth and power savings. To download the white paper, please visit our web site: www.comtechefdata.com, click on "Downloads," "White Papers," then "Comtech EF Data White Paper - LDPC and 8-QAM.pdf"

Pricing and Upgrades

New CDM-600L and CLM-9600L Satellite Modems can be purchased with the LDPC and 8-QAM options. Additionally, existing customers with installed CDM-600Ls and CLM-9600Ls can upgrade to this new, powerful functionality. The upgrade necessitates new hardware and software. We are now accepting orders for both new systems and upgrades. Please contact Comtech EF Data Sales for pricing and availability.

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

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