



CDM-600

New Forward Error Correction, Modulation & Software Release

v1.6.1

Product Bulletin
September 10, 2004

Revolutionary Forward Error Correction & Modulation

Comtech EF Data is pleased to announce the introduction of a new Forward Error Correction codec, based on Low-Density Parity-Check Codes (LDPC), for our CDM-600 Satellite Modem. This innovative codec 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. In conjunction with the introduction of LDPC for the CDM-600 Satellite Modems is a new modulation technique, 8-QAM, which 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:

<http://ftp.comtechefdata.com/linksite/manuals/whitepapers/>

Pricing and Upgrades

New CDM-600 Satellite Modems can be purchased with the LDPC and 8-QAM options. Additionally, existing customers with installed CDM-600s 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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