



PRODUCT COMPARISON

SATELLITE MODEMS

High-End Modems	Frequency	Data Rate	FEC	Modulation	Other
DM240XR Digital Video Broadcast Modulator	50 – 90 MHz 100 – 180 MHz 950 – 2050 MHz	1 – 238 Mbps & 1 – 68 Msps (DVB-S & DVB-DSNG) 1 – 190 Mbps & 1 – 45 Msps (DVB-S2)	<ul style="list-style-type: none"> • DVB-S • DVB-DSNG • DVB-S2 • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM • 32-APSK 	<ul style="list-style-type: none"> • CCM, ACM & VCM Modes • AutoEQ Uplink Equalization • Two Data Interface Slots (PIIC)
DVC240XR – DVB/DVBS2 Modulator Card	50 – 90 MHz & 100 – 180 MHz 950 – 2050 MHz (L-Band Version)	1 – 238 Mbps 1-68 Msps (DVB-S) 1 – 190 Mbps 1 – 45 Msps (DVB-S2)	<ul style="list-style-type: none"> • DVB-S • DVB-DSNG • DVB-S2 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM • 32-APSK 	<ul style="list-style-type: none"> • Modulator on a Compact Card
DVR240XR – DVB/DVBS2 Demodulator Card	950 – 2150 MHz	2 – 160 Mbps 2 – 45 Msps (DVB-S2) 2 – 145 Mbps 2 – 45 Msps (DVB-S)	<ul style="list-style-type: none"> • DVB-S • DVB-DSNG • DVB-S2 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM 	<ul style="list-style-type: none"> • Demodulator on a Compact Card
DD240XR Digital Video Broadcast Demodulator	50 – 90 MHz 100 – 180 MHz 950 – 2150 MHz	2 – 160 Mbps & 2 – 45 Msps (DVB-S2) 2 – 144 Mbps & 2 – 45 Msps (DVB-S)	<ul style="list-style-type: none"> • DVB-S2 • DVB-S • Viterbi • Reed-Solomon • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM 	<ul style="list-style-type: none"> • Upgrades via PCMCIA
DMD2050 MIL-STD-188-165A Compliant Universal Satellite Modem	70 ±18 MHz & 140 ±36 MHz IF 1350 ±400 MHz & 1500 ±500 MHz L-Band	2.4 kbps – 52 Mbps	<ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Sequential • Trellis • TPC • LDPC 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 16-QAM 	<ul style="list-style-type: none"> • MIL-STD-188-165A • IESS 308/309/310/314/315 • DVB-S • G.703 with Drop & Insert • RS-422, HSSI, ASI • Gigabit Ethernet • DoubleTalk® Carrier-in-Carrier®
DMD50 Universal Satellite Modem	50 – 90 MHz & 100 – 180 MHz IF 950 – 2050 MHz L-Band	2.4 kbps – 52 Mbps	<ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Sequential • Trellis • TPC 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 16-QAM 	<ul style="list-style-type: none"> • Dual Band Capability • IESS 308/309/310/314/315 • DVB-S • G.703 • T1/E1/T2/E2/T3/E3/STS1 • Drop & Insert • 4-port 10/100 BaseT Ethernet • RS-422, HSSI, ASI • Gigabit Ethernet



2114 West 7th Street, Tempe, Arizona 85281 USA
 Voice 1 480 333 2200
 Fax 1 480 333 2540
 Email sales@comtechefdata.com
 Web www.comtechefdata.com
 www.radyne.net



PRODUCT COMPARISON (CONTINUED)

SATELLITE MODEMS

Mid-Range Modems	Frequency	Data Rate	FEC	Modulation	Other
DMD20 Universal Satellite Modem	50 – 90 MHz & 100 – 180 MHz IF <hr/> 950 – 2050 MHz L-Band	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Sequential • Trellis • TPC • LDPC 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • Dual Band Capability • IESS 308/309/310/314/315 • DVB-S • G.703 T1/E1/T2/E2 • Drop & Insert • 4-port 10/100 BaseT Ethernet • Gigabit Ethernet
DMD20 LBST L-Band Satellite Modem and ODU Driver	950 – 2050 MHz	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Sequential • Trellis • TPC • LDPC 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • IESS 308/309/310/314/315 • DVB-S • G.703 T1/E1/T2/E2 • Drop & Insert • 4-port 10/100 BaseT Ethernet • Gigabit Ethernet • 10 MHz Reference for BUC & LNB • DC Power for BUC & LNB
DMDVR20 LBST MCPC/SCPC Professional Demod/Mod	950 – 2050 MHz (Modulator) <hr/> 950 – 2150 MHz (Demodulator)	2.4 kbps – 20 Mbps (Modulator) <hr/> 2.0 Mbps – 20 Mbps (Demodulator)	<u>Modulator</u> <ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Trellis • TPC <u>Demodulator</u> <ul style="list-style-type: none"> • LDPC-BCH 	<u>Modulator</u> <ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 16-QAM <u>Demodulator</u> <ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK 	<u>Modulator</u> <ul style="list-style-type: none"> • IESS 309/310/314/315 • DC Power for BUC <u>Demodulator</u> <ul style="list-style-type: none"> • Normal Block and Short Block FEC • DC Power for LNB <u>Data Interface</u> <ul style="list-style-type: none"> • 10/100 BaseT Ethernet • RS-422
OM-20 Rugged Antenna Mount Modem	950 – 2050 MHz	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Sequential • Trellis • TPC 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 16-QAM 	<ul style="list-style-type: none"> • Outdoor, Weatherproof Chassis • IESS 308/309/310/314/315 • DVB-S • 10/100 BaseT Ethernet • RS-422 • G.703 T1/E1 with Drop & Insert
DMD1050 L-Band Satellite Modem Board	950 – 2050 MHz	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> • Viterbi • Reed-Solomon • Sequential • Trellis • TPC 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 16-QAM 	<ul style="list-style-type: none"> • Modem on a Compact PCB Daughter Card • MIL-STD 188-165A • IESS 308/309/310/314/315 • DVB-S • RS-422 / Gigabit Ethernet • 10 MHz Reference



USERS & APPLICATIONS

SATELLITE MODEMS

High-End Modems	Typical Users	Common Applications
DM240XR Digital Video Broadcast Modulator	<ul style="list-style-type: none"> • Broadcasters • Internet Service Providers • Enterprise 	<ul style="list-style-type: none"> • Direct To Home, Distribution and SNG • Disaster Recovery Operators • Circuit Restoration • Primary or Backhaul Transmission
DVC240XR – DVB/DVBS2 Modulator Card	<ul style="list-style-type: none"> • Broadcasters • Internet Service Providers • Enterprise 	<ul style="list-style-type: none"> • Direct To Home, Distribution and SNG • Disaster Recovery Operators • Circuit Restoration • Primary or Backhaul Transmission
DVR240XR – DVB/DVBS2 Demodulator Card	<ul style="list-style-type: none"> • Broadcasters • Internet Service Providers • Enterprise 	<ul style="list-style-type: none"> • Direct To Home, Distribution and SNG • Disaster Recovery Operators • Circuit Restoration • Primary or Backhaul Transmission
DD240XR Digital Video Broadcast Demodulator	<ul style="list-style-type: none"> • Broadcasters • Internet Service Providers • Enterprise 	<ul style="list-style-type: none"> • Direct To Home, Distribution and SNG • Disaster Recovery Operators • Circuit Restoration • Primary or Backhaul Transmission
DMD2050 MIL-STD-188-165A Compliant Universal Satellite Modem	<ul style="list-style-type: none"> • Government & Military 	<ul style="list-style-type: none"> • Satcom on the Halt • Integrated Satellite Terminal Communications • Flyaway Communications
DMD50 Universal Satellite Modem	<ul style="list-style-type: none"> • Telecom Service Providers • Internet Service Providers • Government & Military 	<ul style="list-style-type: none"> • Terrestrial (land line) Backhaul • Internet Trunking
Mid-Range Modems	Typical Users	Common Applications
DMD20 Universal Satellite Modem	<ul style="list-style-type: none"> • Cellular Backhaul • Government & Military 	<ul style="list-style-type: none"> • Terrestrial (land line) Backhaul • Internet Trunking
DMD20 LBST L-Band Satellite Modem and ODU Driver	<ul style="list-style-type: none"> • Cellular Backhaul • Government & Military 	<ul style="list-style-type: none"> • Terrestrial (land line) Backhaul • Internet Trunking



USERS & APPLICATIONS (CONTINUED)

SATELLITE MODEMS

Mid-Range Modems	Typical Users	Common Applications
DMDVR20 LBST MCPC/SCPC Professional Demod/Mod	<ul style="list-style-type: none"> • Internet Service Providers • Enterprise 	<ul style="list-style-type: none"> • ISP Point of Presence • TDM/MF-SCPC
OM-20 Rugged Antenna Mount Modem	<ul style="list-style-type: none"> • Cellular Backhaul • Government & Military 	<ul style="list-style-type: none"> • Shelterless Sites Requiring Internet, Data & Voice Connectivity
DMD1050 L-Band Satellite Modem Board	<ul style="list-style-type: none"> • Government & Military 	<ul style="list-style-type: none"> • Satcom on the Halt • Satcom on the Move • Flyaway and Manpack Communications • Integrated Satellite Terminal Communications • Air to Ground Communications

Comtech EF Data reserves the right to change specifications of products described in this document at any time without notice and without obligation to notify any person of such changes. Information in this document may differ from that published in other Comtech EF Data documents. Refer to the website or contact Customer Service for the latest released product information.
 © September 2009 Comtech EF Data

2114 West 7th Street, Tempe, Arizona 85281 USA
 Voice 1 480 333 2200
 Fax 1 480 333 2540
 Email sales@comtechefdata.com
 Web www.comtechefdata.com
www.radyne.net

