

High-End Modems	Frequency	Data Rate	FEC	Modulation	Other
<b>DM240XR Digital Video Broadcast Modulator</b>	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"> <li>• Viterbi Reed-Solomon</li> <li>• LDPC/BCH</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 16-QAM</li> <li>• 32-APSK</li> </ul>	<ul style="list-style-type: none"> <li>• DVB-S, DVB-DSNG, DVB-S2</li> <li>• CCM, ACM &amp; VCM Modes</li> <li>• AutoEQ™ Uplink Equalization</li> <li>• Two Data Interface Slots (PIIC)</li> </ul>
<b>DVC240XR – DVB/DVBS2 Modulator Card</b>	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"> <li>• Viterbi Reed-Solomon</li> <li>• LDPC/BCH</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 16-QAM</li> <li>• 32-APSK</li> </ul>	<ul style="list-style-type: none"> <li>• DVB-S, DVB-DSNG, DVB-S2</li> <li>• Modulator on a Card</li> </ul>
<b>CDM-750 Advanced High-Speed Trunking Modem</b>	50 – 180 MHz  950 – 2150 MHz (L-Band Version)	1 – 169 Mbps 1 – 63 Msps	<ul style="list-style-type: none"> <li>• DVB-S2</li> <li>• LDPC/BCH</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 32-APSK</li> </ul>	<ul style="list-style-type: none"> <li>• DVB-S2</li> <li>• ACM</li> <li>• DoubleTalk®</li> <li>• Carrier-in-Carrier®</li> <li>• Gigabit Ethernet</li> <li>• Two Data Interface Slots (PIIC): (OPT) G.703 T3/E3</li> </ul>
<b>DVR240XR – DVB/DVBS2 Demodulator Card</b>	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"> <li>• Viterbi Reed-Solomon (RX)</li> <li>• LDPC/BCH (RX)</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Demodulator on a Card</li> <li>• DVB-S, DVB-DSNG, DVB-S2</li> </ul>
<b>DD240XR Digital Video Broadcast Demodulator</b>	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"> <li>• Viterbi Reed-Solomon</li> <li>• LDPC/BCH</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• DVB-S, DVB-DSNG, DVB-S2</li> <li>• Upgrades via PCMCIA</li> </ul>
<b>SLM-5650A Satellite Modem</b>	52 – 88 MHz 104 – 176 MHz 950 – 2000 MHz	64 kbps – 155 Mbps (Gigabit Ethernet)  64 kbps – 51.84 Mbps (HSSI)  64 kbps – 20 Mbps (EIA-530 / RS-422)	<ul style="list-style-type: none"> <li>• TPC</li> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Trellis</li> <li>• Sequential</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• MIL-188-165A</li> <li>• AES-256 TRANSEC</li> <li>• Vipersat dSCPC</li> <li>• Gigabit Ethernet Network Processor with IP QoS</li> <li>• G.703</li> <li>• LVDS</li> <li>• DoubleTalk®</li> <li>• Carrier-in-Carrier®</li> </ul>
<b>CDM-700 High Speed Satellite Modem</b>	52 – 88 MHz 104 – 176 MHz  950 – 1950 MHz (L-Band H/W Option)	1.5 – 155 Mbps 1 – 64 Msps	<ul style="list-style-type: none"> <li>• TPC</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> <li>• 64-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Two data Interface Slots</li> <li>• Dual G.703 (E3, T3, STS-1)</li> <li>• OC3/STM-1</li> <li>• Gigabit Ethernet</li> <li>• HSSI</li> </ul>
<b>CDM-710 Broadcast Satellite Modem</b>	52 – 88 MHz 104 – 176 MHz  950 – 2000 MHz (L-Band H/W Option)	0.49 – 124.6 Mbps 1 – 45 Msps	<ul style="list-style-type: none"> <li>• Viterbi Reed-Solomon</li> <li>• LDPC/BCH</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 32-APSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• DVB-S, DVB-DSNG, DVB-S2</li> <li>• ASI</li> <li>• HSSI</li> <li>• Gigabit Ethernet</li> </ul>

High-End Modems	Frequency	Data Rate	FEC	Modulation	Other
<b>CDM-710G High-Speed Satellite Modem</b>	52 – 88 MHz 104 – 176 MHz  950 – 1950 MHz (L-Band H/W Option)	0.49 – 124.6 Mbps 1 – 45 Msps	<ul style="list-style-type: none"> <li>• LDPC/BCH</li> </ul>	<ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> <li>• 32-APSK</li> </ul>	<ul style="list-style-type: none"> <li>• DVB-S2</li> <li>• HSSI</li> <li>• Gigabit Ethernet</li> <li>• G.703 (E3, T3, STS-1)</li> </ul>
<b>DMD2050 MIL-STD-188-165A Compliant Universal Satellite Modem</b>	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"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Sequential</li> <li>• Trellis</li> <li>• TPC</li> <li>• LDPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• MIL-STD-188-165A</li> <li>• IESS-308/309/310/314/315</li> <li>• DVB-S</li> <li>• G.703 with Drop &amp; Insert</li> <li>• RS-422, HSSI, ASI</li> <li>• Gigabit Ethernet</li> <li>• DoubleTalk<sup>®</sup> Carrier-in-Carrier<sup>®</sup></li> </ul>
<b>DMD50 Universal Satellite Modem</b>	50 – 90 MHz & 100 – 180 MHz IF  950 – 2050 MHz L-Band	2.4 kbps – 52 Mbps	<ul style="list-style-type: none"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Sequential</li> <li>• Trellis</li> <li>• TPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Dual Band Capability</li> <li>• IESS-308/309/310/314/315</li> <li>• DVB-S</li> <li>• G.703</li> <li>• T1/E1/T2/E2/T3/E3/STS1</li> <li>• Drop &amp; Insert</li> <li>• 4-port 10/100Base-T Ethernet</li> <li>• RS-422, HSSI, ASI</li> <li>• Gigabit Ethernet</li> </ul>
Mid-Range Modems	Frequency	Data Rate	FEC	Modulation	Other
<b>CDM-625 Advanced Satellite Modem</b>	50 – 180 MHz (Standard)  950 – 2000 MHz (L-Band S/W Option)  Dual band capability with Independent TX & RX	18 kbps – 25 Mbps	<ul style="list-style-type: none"> <li>• VersaFEC<sup>®</sup></li> <li>• LDPC</li> <li>• TPC</li> <li>• Viterbi</li> <li>• TCM</li> <li>• Reed-Solomon</li> <li>• Sequential</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• DoubleTalk<sup>®</sup> Carrier-in-Carrier<sup>®</sup></li> <li>• ACM</li> <li>• IP Packet Processor</li> <li>• 4-port Managed Ethernet Switch with VLAN &amp; QoS</li> <li>• Quad E1 Drop &amp; Insert</li> <li>• IP Sub Mux</li> <li>• CDM-600 Emulation Mode</li> <li>• Open Network Support</li> </ul>
<b>CDM-Qx &amp; CDM-QxL Multi-Channel Satellite Modems</b>	50 – 90 MHz 100 – 180 MHz  950 – 1950 MHz (L-Band Version)	32 kbps – 20 Mbps	<ul style="list-style-type: none"> <li>• TPC</li> <li>• Viterbi</li> <li>• TCM</li> <li>• Reed-Solomon</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• DoubleTalk<sup>®</sup> Carrier-in-Carrier<sup>®</sup></li> <li>• Quad E1 with Drop &amp; Insert</li> </ul>
<b>CDM-600 &amp; CDM-600L Satellite Modems</b>	50 – 90 MHz 100 – 180 MHz  950 – 2000 MHz (L-Band Version)	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> <li>• LDPC</li> <li>• TPC</li> <li>• Viterbi</li> <li>• Sequential</li> <li>• TCM</li> <li>• Reed-Solomon</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Drop &amp; Insert</li> </ul>
<b>DMD20 Universal Satellite Modem</b>	50 – 90 MHz & 100 – 180 MHz IF  950 – 2050 MHz L-Band	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Sequential</li> <li>• Trellis</li> <li>• TPC</li> <li>• LDPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• DoubleTalk<sup>®</sup> Carrier-in-Carrier<sup>®</sup></li> <li>• Dual Band Capability</li> <li>• IESS-308/309/310/314/315</li> <li>• DVB-S</li> <li>• G.703 T1/E1/T2/E2</li> <li>• Drop &amp; Insert</li> <li>• 4-port 10/100Base-T Ethernet</li> <li>• Gigabit Ethernet</li> </ul>

Mid-Range Modems	Frequency	Data Rate	FEC	Modulation	Other
<b>DMD20 LBST L-Band Satellite Modem and ODU Driver</b>	950 – 2050 MHz	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Sequential</li> <li>• Trellis</li> <li>• TPC</li> <li>• LDPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• DoubleTalk® Carrier-in-Carrier®</li> <li>• IESS-308/309/310/314/315</li> <li>• DVB-S</li> <li>• G.703 T1/E1/T2/E2</li> <li>• Drop &amp; Insert</li> <li>• 4-port 10/100Base-T Ethernet</li> <li>• Gigabit Ethernet</li> <li>• 10 MHz Reference for BUC &amp; LNB</li> <li>• DC Power for BUC &amp; LNB</li> </ul>
<b>DMDVR20 LBST L-Band Satellite Modem</b>	950 – 2050 MHz (Modulator)  950 – 2150 MHz (Demodulator)	2.4 kbps – 20 Mbps (Modulator)  2.0 Mbps – 20 Mbps (Demodulator)	<u>Modulator</u> <ul style="list-style-type: none"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Trellis</li> <li>• TPC</li> </ul> <u>Demodulator</u> <ul style="list-style-type: none"> <li>• LDPC-BCH</li> </ul>	<u>Modulator</u> <ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul> <u>Demodulator</u> <ul style="list-style-type: none"> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 16-APSK</li> </ul>	<u>Modulator</u> <ul style="list-style-type: none"> <li>• IESS-309/310/314/315</li> <li>• DC Power for BUC</li> </ul> <u>Demodulator</u> <ul style="list-style-type: none"> <li>• Normal Block and Short Block FEC</li> <li>• DC Power for LNB</li> </ul> <u>Data Interface</u> <ul style="list-style-type: none"> <li>• RS-422</li> </ul>
<b>OM-20 Rugged Antenna Mount Modem</b>	950 – 2050 MHz	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Sequential</li> <li>• Trellis</li> <li>• TPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Outdoor, Weatherproof Chassis</li> <li>• IESS-308/309/310/314/315</li> <li>• DVB-S</li> <li>• 10/100Base-T Ethernet</li> <li>• RS-422</li> <li>• G.703 T1/E1 with Drop &amp; Insert</li> </ul>
<b>DMD1050 L-Band Satellite Modem Board</b>	950 – 2050 MHz	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> <li>• Viterbi</li> <li>• Reed-Solomon</li> <li>• Sequential</li> <li>• Trellis</li> <li>• TPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Modem on a Compact PCB Daughter Card</li> <li>• MIL-STD-188-165A</li> <li>• IESS-308/309/310/314/315</li> <li>• DVB-S</li> <li>• RS-422 / Gigabit Ethernet</li> <li>• 10 MHz Reference</li> </ul>
Entry-Level Modems	Frequency	Data Rate	FEC	Modulation	Other
<b>CDM-570/L, CDM-570/L-IP &amp; CDM-570/L-IPEN Satellite Modems</b>	50 – 90 MHz 100 – 180 MHz  950 – 2000 MHz (L-Band Version)	2.4 kbps – 9.98 Mbps	<ul style="list-style-type: none"> <li>• TPC</li> <li>• Viterbi</li> <li>• TCM</li> <li>• Reed-Solomon</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• OQPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• IP, IP with encryption &amp; Standard Models Available</li> <li>• E1 RAN Optimization (Option)</li> </ul>
<b>CDD-564/L &amp; CDD-564/LEN Quad IP Demodulators</b>	50 – 90 MHz 100 – 180 MHz  950 – 1950 MHz (L-Band Version)	16 kbps – 9.98 Mbps	<ul style="list-style-type: none"> <li>• TPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated IP Module</li> <li>• Optional Encryption Models</li> </ul>
<b>CDD-562L &amp; CDD-562LEN Dual IP Demodulators</b>	950 – 1950 MHz	16 kbps – 9.98 Mbps	<ul style="list-style-type: none"> <li>• TPC</li> </ul>	<ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• 8-PSK</li> <li>• 8-QAM</li> <li>• 16-QAM</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated IP Module</li> <li>• Optional Encryption Model</li> </ul>



# APPLICATIONS SATELLITE MODEMS

	DM240XR	DVC240XR	CDM-750	DVR240XR	DD240XR	SLM-5650A	CDM-700	CDM-710	CDM-710G	DMD2050	DMD50	CDM-625	CDM-Qx & CDM-QxL	CDM-600 & CDM-600L	DMD20	DMD20 LBST	DMDVR20 LBST	OM-20	DMD1050	CDM-570/L, CDM-570/L-IP & CDM-570/L-IPEN	CDD-564/L & CDD-564/LEN	CDD-562L & CDD-562LEN	
Broadband Interactive Services	X	X		X	X		X	X	X														
Broadcast Content Distribution	X	X		X	X			X															
Cellular Backhaul												X	X	X	X	X					X		
Communications at-the-Pause						X				X										X			
Communications on-the-Move						X						X								X	X		
Digital Cinema	X	X		X	X			X															
Digital Signage	X	X		X	X			X															
Direct To Home	X	X		X	X			X															
Disaster Recovery & Emergency Communications	X	X	X	X	X		X		X												X	X	X
Enterprise	X	X		X	X		X	X	X			X									X	X	X
Flyaway Communications										X										X			
G.703 Trunking	X		X		X		X		X		X	X	X	X	X	X	X						
High Speed Content Delivery	X	X	X	X	X		X		X														
Integrated Satellite Terminal Communications										X										X			
IP Trunking	X		X		X		X		X		X	X			X	X							
IPTV / Business Television	X						X	X															
Offshore & Maritime Communications												X	X								X	X	X
Rugged Environments						X																	
Satellite News Gathering	X	X		X	X			X				X									X	X	X
Secure Networks						X																	
Shelterless Deployments																		X					

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