

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"> • Viterbi Reed-Solomon • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM • 32-APSK 	<ul style="list-style-type: none"> • DVB-S, DVB-DSNG, DVB-S2 • 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"> • Viterbi Reed-Solomon • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM • 32-APSK 	<ul style="list-style-type: none"> • DVB-S, DVB-DSNG, DVB-S2 • Modulator on a Card
CDM-750 Advanced High-Speed Trunking Modem	50 – 180 MHz 950 – 2150 MHz (L-Band Version)	1 – 169 Mbps 1 – 63 Msps	<ul style="list-style-type: none"> • DVB-S2 • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 32-APSK 	<ul style="list-style-type: none"> • DVB-S2 • ACM • DoubleTalk® • Carrier-in-Carrier® • Gigabit Ethernet • Two Data Interface Slots (PIIC): (OPT) G.703 T3/E3/STS-1
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"> • Viterbi Reed-Solomon (RX) • LDPC/BCH (RX) 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM 	<ul style="list-style-type: none"> • Demodulator on a Card • DVB-S, DVB-DSNG, DVB-S2
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"> • Viterbi Reed-Solomon • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 16-QAM 	<ul style="list-style-type: none"> • DVB-S, DVB-DSNG, DVB-S2 • Upgrades via PCMCIA
SLM-5650A Satellite Modem	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"> • TPC • Viterbi • Reed-Solomon • Trellis • Sequential 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 16-QAM 	<ul style="list-style-type: none"> • MIL-188-165A • AES-256 TRANSEC • Vipersat dSCPC • Gigabit Ethernet Network Processor with IP QoS • G.703 • LVDS • DoubleTalk® • Carrier-in-Carrier®
CDM-700 High Speed Satellite Modem	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"> • TPC 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-QAM • 64-QAM 	<ul style="list-style-type: none"> • Two data Interface Slots • Dual G.703 (E3, T3, STS-1) • OC3/STM-1 • Gigabit Ethernet • HSSI
CDM-710 Broadcast Satellite Modem	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"> • Viterbi Reed-Solomon • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 32-APSK • 16-QAM 	<ul style="list-style-type: none"> • DVB-S, DVB-DSNG, DVB-S2 • ASI • HSSI • Gigabit Ethernet

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CDM-710G High-Speed Satellite Modem	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"> • LDPC/BCH 	<ul style="list-style-type: none"> • QPSK • 8-PSK • 16-APSK • 32-APSK 	<ul style="list-style-type: none"> • DVB-S2 • HSSI • Gigabit Ethernet • G.703 (E3, T3, STS-1)
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 10/100Base-T Ethernet • RS-422, HSSI, ASI • Gigabit Ethernet
Mid-Range Modems	Frequency	Data Rate	FEC	Modulation	Other
CDM-625 & CDM-625-EN Advanced Satellite Modems	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"> • VersaFEC® • LDPC • TPC • Viterbi • TCM • Reed-Solomon • Sequential 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • DoubleTalk® Carrier-in-Carrier® • ACM • IP Packet Processor • 4-port Managed Ethernet Switch with VLAN & QoS • Quad E1 Drop & Insert • IP Sub Mux • CDM-600 Emulation Mode • Open Network Support • AES Encryption for IP Data
CDM-Qx & CDM-QxL Multi-Channel Satellite Modems	50 – 90 MHz 100 – 180 MHz 950 – 1950 MHz (L-Band Version)	32 kbps – 20 Mbps	<ul style="list-style-type: none"> • TPC • Viterbi • TCM • Reed-Solomon 	<ul style="list-style-type: none"> • BPSK • QPSK • 8-PSK • 16-QAM 	<ul style="list-style-type: none"> • DoubleTalk® Carrier-in-Carrier® • Quad E1 with Drop & Insert
CDM-600 & CDM-600L Satellite Modems	50 – 90 MHz 100 – 180 MHz 950 – 2000 MHz (L-Band Version)	2.4 kbps – 20 Mbps	<ul style="list-style-type: none"> • LDPC • TPC • Viterbi • Sequential • TCM • Reed-Solomon 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • Drop & Insert
DMD20 Universal Satellite Modem	50 – 90 MHz & 100 – 180 MHz IF 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"> • DoubleTalk® Carrier-in-Carrier® • Dual Band Capability • IESS-308/309/310/314/315 • DVB-S • G.703 T1/E1/T2/E2 • Drop & Insert • 4-port 10/100Base-T Ethernet • Gigabit Ethernet

Mid-Range Modems	Frequency	Data Rate	FEC	Modulation	Other
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"> • DoubleTalk® Carrier-in-Carrier® • IESS-308/309/310/314/315 • DVB-S • G.703 T1/E1/T2/E2 • Drop & Insert • 4-port 10/100Base-T Ethernet • Gigabit Ethernet • 10 MHz Reference for BUC & LNB • DC Power for BUC & LNB
DMDVR20 LBST L-Band Satellite Modem	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"> • 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"> • 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 • 10/100Base-T 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
Entry-Level Modems	Frequency	Data Rate	FEC	Modulation	Other
CDM-570/L, CDM-570/L-IP & CDM-570/L-IPEN Satellite Modems	50 – 90 MHz 100 – 180 MHz 950 – 2000 MHz (L-Band Version)	2.4 kbps – 9.98 Mbps	<ul style="list-style-type: none"> • TPC • Viterbi • TCM • Reed-Solomon 	<ul style="list-style-type: none"> • BPSK • QPSK • OQPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • IP, IP with encryption & Standard Models Available • E1 RAN Optimization (Option)
CDD-564/L & CDD-564/LEN Quad IP Demodulators	50 – 90 MHz 100 – 180 MHz 950 – 1950 MHz (L-Band Version)	16 kbps – 9.98 Mbps	<ul style="list-style-type: none"> • TPC 	<ul style="list-style-type: none"> • BPSK • QPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • Integrated IP Module • Optional Encryption Models
CDD-562L & CDD-562LEN Dual IP Demodulators	950 – 1950 MHz	16 kbps – 9.98 Mbps	<ul style="list-style-type: none"> • TPC 	<ul style="list-style-type: none"> • BPSK • QPSK • 8-PSK • 8-QAM • 16-QAM 	<ul style="list-style-type: none"> • Integrated IP Module • Optional Encryption Model

	DM240XR	DVC240XR	CDM-750	DVR240XR	DD240XR	SLM-5650A	CDM-700	CDM-710	CDM-710G	DMD2050	DMD50	CDM-625 & CDM-625-EN	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						X											
Shelterless Deployments																		X					

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