

MPEG-2 & H.264 RECEIVER-DECODER

This OMB equipment is a powerful and cost-effective broadcast level decoder. It supports signal receiving, multi-channel descrambling, multiplexing, external table/date insertion, transcoding and transmodulating. It also supports MPEG-2/MPEG-4 SD/HD program decoding with two audio channels. With remote web-based management interfaces, it is ideal to support advanced content distribution, real-time signal conversion and transmission via all IP headend system.



GENERAL CHARACTERISTICS

RF

DVB-S/S2 INPUT	
INPUT	1 x RF (F type, signal input), 75Ω 2 x RF (F type, dual input), 75Ω
CONSTELLATION	QPSK, 8PSK
SYMBOL RATE	1-45Mbps
INPUT FREQUENCY	950-2.150MHz
MAX. BITRATE	150Mps
SIGNAL LEVEL	-65 to -25dBm
LNB PS	DC13V/18V
22K SWITCH	On/Off
DVB-C INPUT	
INPUT	1 x RF (F type, signal input), 75Ω 2 x RF (F type, dual input), 75Ω
SYMBOL RATE	3.6-6.952MBauds
QAM TYPE	J83.A/B/C
INPUT FREQUENCY	48-862MHz
MAX. BITRATE	55Mbps
SIGNAL LEVEL	40-80dBuV

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DVB-T INPUT	
INPUT	1 x RF (F type, signal input), 75Ω 2 x RF (F type, dual input), 75Ω
CONSTELLATION	QPSK/16/64QAM
BANDWIDTH	6/7/8M
INPUT FREQUENCY	48-862MHz
MAX. BITRATE	31.67Mbps
TRANSMISSION MODE	2K, 8K
DVB-T2 INPUT	
INPUT	1 x RF (F type, signal input), 75Ω 2 x RF (F type, dual input), 75Ω
CONSTELLATION	16/32/64/128/256QAM
BANDWIDTH	1.7MHz, 5MHz, 6MHz, 7MHz, 8MHz, 10MHz
INPUT FREQUENCY	48-862MHz
MAX. BITRATE	50Mbps
TRANSMISSION MODE	1K, 2K, 4K, 8K, 16K, 32K
ISDB-T/TB INPUT (optional)	
INPUT	1 x RF (F type, signal input), 75Ω 2 x RF (F type, dual input), 75Ω
CONSTELLATION	QPSK/16/64QAM DQPSK
BANDWIDTH	1.7MHz, 5MHz, 6MHz, 7MHz, 8MHz, 10MHz
INPUT FREQUENCY	48-862MHz
MAX. BITRATE	6Mbps
CARRIERS MODE	1K-42K, 3K
ATSC INPUT	
INPUT	1 x RF (F type, signal input), 75Ω 2 x RF (F type, dual input), 75Ω
CONSTELLATION	8VSB
BANDWIDTH	6MHz
INPUT FREQUENCY	57-803MHz
MAX. BITRATE	19.39Mbps

TS/IP

GbE IP	
INTERFACE	GbE level RJ45 port
SPEED	Up to 1000Mbps
PACKAGE FORMAT	UDP & RTP (auto detection)
TRAFFIC TYPE	Unicast: ARP Multicast: v2, v3 (optional)
FEC	ProMPEG CoP3v2
TCP/IP PROTOCOL	IPv4, IPv6 (future option)

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DVB-ASI

GbE IP	
INTERFACE	4BNC, 75Ω (2 x ASI input, 2 x ASI output)
MAX. BITRATE	100Mbps
PACKET TYPE	188/204 Bytes
INPUT MODE	Spread and burst
OUTPUT MODE	Support burst
SUPPORT MPEG-2/H.264 SD/HD STREAM BYPASS TRANSMISSION	
SUPPORT AC-3/E-AC-3 AUDIO BYPASS TRANSMISSION	

DVB DE-SCRAMBLING

DVB DE-SCRAMBLING	
DVB COMMON INTERFACE	2 slots
BIT-RATE	Max. 100Mbps
CAM SUPPORTED	NEOTION, SMIT, ASTON and other major CAMs
CAS SUPPORTED	CONAX, IRDETO, Novel-Super TV, CTI and other major CASSs
BISS 1 & BISS E	TS & program level

RF MODULATION

OUTPUT	
INTERFACE	1 RF for 4 channels (DVB-C modulation, F type, 75Ω) 1 RF for 2 channels (DVB-T modulation, F type, 75Ω) 1 for RF monitor output (F type, 75Ω)
DVB-C MODULATION	
STANDARD	ITU-T J.83 annex A/C, annex B
CONSTELLATION	16/32/64/128/256QAM
SYMBOL RATE	4.4-6.952Mbauds
OUTPUT LEVEL	90-115dBuV (depending on channels)
FREQUENCY RANGE	48-862MHz
EMR	38
DVB-T MODULATION	
STANDARD	ETSI EN 300 744
CONSTELLATION	QPSK/16/64QAM
CARRIERS MODE	2K, 8K
BANDWIDTH	6MHz, 7MHz, 8MHz
OUTPUT LEVEL	90-115dBuV (depending on channels)
FREQUENCY RANGE	48-862MHz

DECODER

VIDEO DECODING	
DECODING FORMAT	MPEG-2 SD 4:2:0 MP@ML MPEG-2 HD 4:2:0 MP@ML MPEG-4 AVC SD MP@L3 MPEG-4 AVC HD MP@L4.0/HP@4.0
AUDIO DECODING	
AUDIO FORMAT	Musicam (MPEG-1 layer II) Dolby Digital (AC-3), optional Dolby Digital Plus (E-AC-3), optional AAC (MPEG-2, MPEG-4/HE v1, 2, MPEG-4/LC), optional
ADJUSTABLE VOLUME LEVEL	-63 to 0dB

TS TRANSCODIGN

TS TRANSCODING	
PROCESSING CHANNELS	4 programs
INPUT	
VIDEO	H.264 (MPEG-4 part 10) or MPEG-2
VIDEO FORMAT	Up to 1080p30
ASPECT RATIO	4 :3, 16:9, auto
AUDIO	MPEG1 layer I/II MPEG2 layer II Dolby Digital (AC-3), optional AAC, optional
AUDIO MODE	Stereo, dual mono, single mono
OUTPUT	
VIDEO	H.264 (MPEG-4 part 10) 4:2:0 MP@L4 MPEG-2 4:2:0 MP@ML
FORMAT	576i, 480i (BT.656) 1080i50, 1080i60, 1080i59.94 720P50, 720P60, 720P59.94
AUDIO	MPEG-1 layer I/II AAC, optional
SUBTITLE AND AUDIO	Pass through
BITRATE	MPEG-2 video: 2.0-15Mbps (CBR & VBR) Audio: 64-384Kbps H.264 video: 1.0-20Mbps (CBR & VBR) Audio: 64-384Kbps
ADJUSTABLE VOLUME	-63 to 0dBm

* The images and/or technical specifications are subject to change without previous notice.

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