OmniHub 6/16

OmniHub 16

OmniHub 6

OmniHub 6D

OmniHub 6RFX

INTRODUCTION

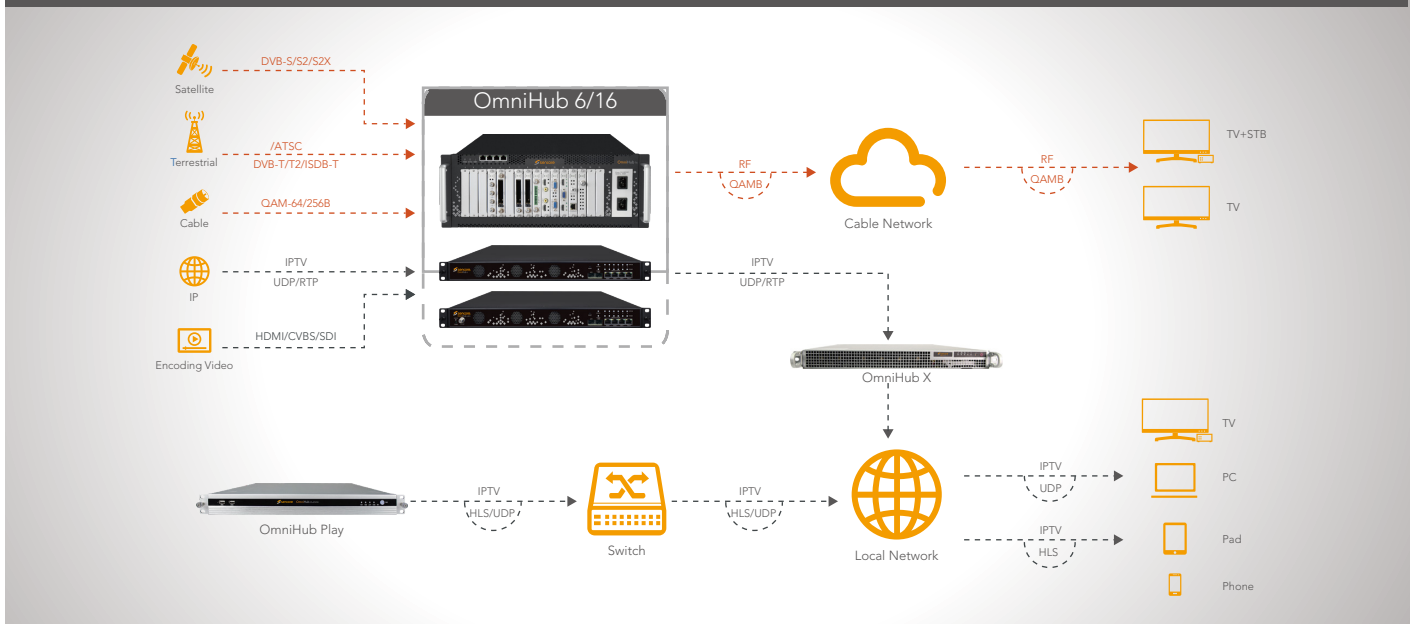
OmniHub 6/16 is the next generation of modular video processing by Sencore. There are two chassis sizes available accommodating up to 16 modules in a 4RU rack space, or 6 modules in a 1RU rack space. Using a built-in IP switch and diverse range of hot-swappable input/output options, OmniHub 6/16 is a highly flexible solution perfect for a variety of applications including Hospitality, Education, Government, MDU, and more.

Offering an excellent balance of performance VS value, the Omnihub 6/16 is ideal for dense multi-channel encoding, signal reception, digital turn around, and simultaneous IPTV + QAM distribution without an excessive price tag. Backed by a US based support team and a intuitive Web-Interface, the OmniHub platform is easy for any organization to deploy and operate.

CHASSIS PART NUMBERS	RU SIZE	MAXIMUM MODULES	POWER SUPPLIES	CHASSIS PORTS
OMNIHUB-16-02	4RU	16	2	2 MGMT, 2DATA
OMNIHUB 6-02	1RU	6	1	2 MGMT, 4 DATA (2x SFP, 2RJ45)
OMNIHUB 6D-02	1RU	6	2	2 MGMT, 4 DATA (2x SFP, 2RJ45)
OMNIHUB 6RFX-02	1RU	6	1	2 MGMT, 4 DATA (2x SFP, 2RJ45), 1RF (front)

APPLICATION

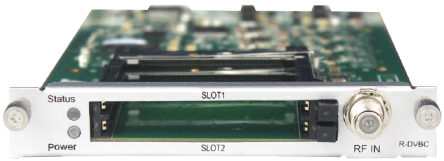
OmniHub IPTV Solution



Chassis
4RU with 16 slots for hot-swappable modules 1RU with 6 slots for hot-swappable modules
Dual/redundant power supplies
Service-level multiplexing
4 x Gigabit RJ45, 2 SFP (embedded): • MPEG TS over UDP/RTP multicast/unicast SPTS/MPTS • Max. 120 inputs and 120 outputs
Total bitrate 350Mbps of throughput (700Mbs aggregated IN+OUT) VBR and CBR support

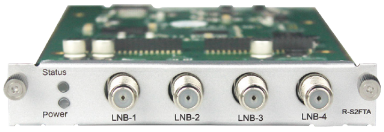
Physical & Environment	
Input Voltage	100~240 VAC/50-60Hz
Power Consumption	1RU: 400W 4RU: Max. 360
Chassis Dimension (W x H x D)	480mm x 44mm x 430mm (18.90" x 1.73" x 16.93"), 1 RU 480mm x 177mm x 345mm (18.90" x 6.97" x 13.58"), 4RU
Chassis Weight	OmniHub 6 Chassis: 5Kg/11.02LBS OmniHub 6 Chassis + Modules (Average): 7.05Kg/15.53LBS OmniHub 16 Chassis: 11Kg/24.25LBS OmniHub 16 Chassis + Modules (Average): 13.4Kg/29.53LBS
Operating Temperature	0°C~40°C (32°F ~ 104°F)
Storage Temperature	-10°C~70°C (14°F ~ 174.2°F)
Operating Humidity	<95%
MTBF	≥100,000 hours

SPECIFICATIONS



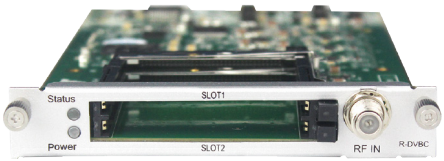
OHR6-DVBC-00

QAM-A/C (DVB-C) Receiver/Descrambler	
Input	4 channels via1 RF female connector
CI	2 x PCMCIA CI slots
CAM	Descrambled channel quantity depends on CAM capability, 2 CAMs could be different
QAM Mode	Annex A/C
Frequency Range	47~862MHz
Bandwidth	6/7/8MHz
Constellation	16QAM/32QAM/64QAM/128QAM/256QAM
Symbol Rate	3.6~6.952Ms/s
Signal Level	-20~20dBmV
CA System	Supports mainstream CAS
Power Consumption	Max. 9.5W



OHR6-DVBS2FTA-01

DVB-S/S2/S2X Receiver	
Input	4 channels via 4 RF female connectors
LNB Power	Independent power supplies for each LNB
LNB Voltage	13V/18V
LNB Current	Max. 400mA
Constellation	DVB-S: QPSK DVB-S2: QPSK, 8PSK, 16APSK, DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK
Frequency Range	950~2150MHz
Signal Level	-22~28dBmV
Roll-off Factor	0.15, 0.20, 0.25, 0.35
Symbol Rate	DVB-S: 1~45Msps DVB-S2: 1~45Msps DVB-S2X: 1~34 Msps
FEC	DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB-S2X: 11/15, 7/9, 4/5, 5/6 (Normal FEC FECFRAME)
Power Consumption	Max. 38W



OHR6-DVBC-ISDBT-01

QAM-B Receiver	
Input	4 channels via1 RF female connector
CI	2 x PCMCIA CI slots
CAM	Descrambled channel quantity depends on CAM capability, 2 CAMs could be different
QAM Mode	Annex B
Frequency Range	47~862MHz
Bandwidth	6MHz
Constellation	64QAM, 256QAM
Symbol Rate	5.057Ms/s (64QAM) 5.360Ms/s (256QAM)
Signal Level	-20~20dBmV
CA System	Supports mainstream CAS
Power Consumption	Max. 9.5W

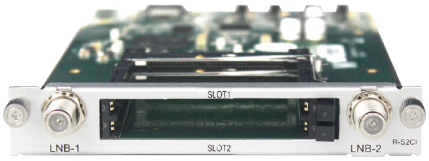
OR

ISDB-T Receiver	
Input	4 channels via1 RF female connector
CI	2 x PCMCIA CI slots
CAM	Descrambled channel quantity depends on CAM capability, 2 CAMs could be different
Frequency Range	177.143-863.143 MHz
Bandwidth	6/8MHz
Constellation	DQPSK, QPSK, 16QAM, 64QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8, Automatic
Signal Level	-20~20dBmV
CA System	Supports mainstream CAS
Power Consumption	Max. 9.5W

SPECIFICATIONS

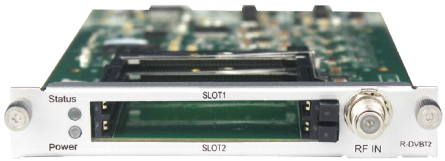
OHR6-DVBS2FTA-01A

DVB-S/S2/S2X Receiver	
Input	8 channels via 8 RF female connectors
LNB Power	Independent power supplies for each LNB
LNB Voltage	13V/18V
LNB Current	Max. 400mA
Constellation	DVB-S: QPSK DVB-S2: QPSK, 8PSK, 16APSK, DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK
Frequency Range	950~2150MHz
Signal Level	-22~28dBmV
Roll-off Factor	0.15, 0.20, 0.25, 0.35
Symbol Rate	DVB-S: 1~45Msps DVB-S2: 1~45Msps DVB-S2X: 1~34 Msps
FEC	DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB-S2X: 11/15, 7/9, 4/5, 5/6 (Normal FEC FECFRAME)
Power Consumption	Max. 70W



OHR6-DVBS2CI-01

DVB-S/S2/S2X Receiver/Descrambler	
Input	4 channels via 2 RF female connectors CH1 & CH2 via LNB-1 CH3 & CH4 via LNB-2
LNB Power	Independent power supplies for each LNB
LNB Voltage	13V/18V
LNB Current	Max. 400mA
CI	2 x PCMCIA CI slots
CAM	Descrambled channel quantity depends on CAM capability, 2 CAMs could be different
Constellation	DVB-S: QPSK DVB-S2: QPSK, 8PSK, 16APSK DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK
Frequency Range	950~2150MHz
Signal Level	-22~28dBmV
Roll-off Factor	0.15, 0.20, 0.25, 0.35
Symbol Rate	DVB-S: 1~45Msps DVB-S2: 1~45Msps DVB-S2X: 1~34 Msps
FEC	DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB-S2X: 11/15, 7/9, 4/5, 5/6 (Normal FEC FECFRAME)
CA System	Supports mainstream CAS
Power Consumption	Max. 22W



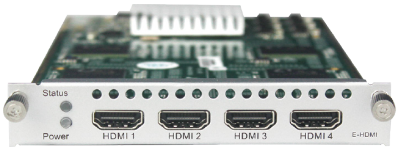
OHR6-DVBT2CI-00

DVB-T/T2 Receiver/Descrambler	
Input	4 channels via 1 RF female connector
CI	2 x PCMCIA CI slots
CAM	Descrambled channel quantity depends on CAM capability, 2 CAMs could be different
Frequency Range	47~862MHz
Bandwidth	6/7/8MHz
Constellation	DVB-T: QPSK/16QAM/64QAM DVB-T2: QPSK/16QAM/64QAM
Guard Interval	DVB-T: 1/4, 1/8, 1/16, 1/32 DVB-T2: 1/128
FFT Size	DVB-T: 2K, 8K DVB-T2: 8K, 16K, 32K
Signal Level	-22~28dBmV
CA System	Supports mainstream CAS
Power Consumption	Max. 8W

OHR6-8VSB-00

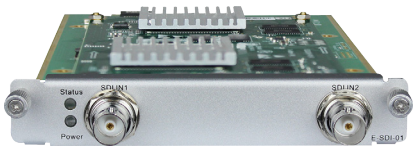
8VSB Receiver	
Input	4 channels via 4 RF female connector
Frequency Range	50~860MHz
Bandwidth	6MHz
Modulation	8VSB
Signal Level	-22~28dBmV
Power Consumption	Max. 9.5W

SPECIFICATIONS



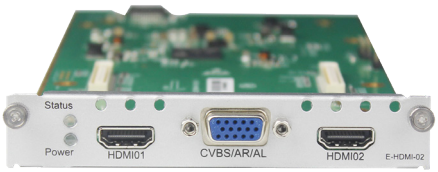
OHE6-HDMI-R01

Basic HDMI Encoder	
Input	4 channels via 4 HDMI female connectors (HDMI 1.4)
Video	H.264/AVC HD: MP/HP@L4.0 SD: MP/HP@L3.0 MPEG-2 SD: MP@ML
Resolution	SD: 576i25, 480i29.97 HD: 1080p-25/30/50/59.94/60 1080i-25, 29.97, 30 720p-50/60 * Output resolution supports up to 1920 x 1080p30
Bitrate Control	CBR
Video Bitrate	600~12,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	1-60
Aspect Ratio	Automatic or Manual
Audio	MPEG-1 Layer II, AC3 (optional), AAC (optional)
Audio Bitrate	96~192Kbps
Audio Mode	Stereo (2.0, including downmix)
Audio Sampling Rate	48kHz
Audio Volume Leveling	-20dB~20dB
Power Consumption	Max. 12W



OHE6-SDI-01

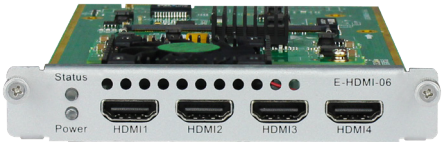
SDI Encoder	
Input	2 channels via 2 SDI SDI via BNC connector
Video	H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0 MPEG-2 SD: MP @ML HD: MP@HL
Resolution	SD: 576i25, 480i29.97 HD: 1080p-25/30/50/59.94/60 1080i-25, 29.97, 30 720p-50/60 * The maximum output resolution is 1080i30.
Bitrate Control	CBR
Bitrate	800 ~18,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	6~63
Audio	MPEG-1 Layer II, AC3, AAC
Audio Mode	Stereo (2.0, including downmix) Audio Pass through
Audio Processing	2 x audio services / PIDs per video
Sampling Rate	48kHz
Power Consumption	Max. 16W



OHE6-HDMI-02C

HDMI/Composite Encoder	
Input	2 channels via 2 HDMI or 2 component Female connectors (HDMI1.4) CC/Component input via DB15 port
Video	H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0 MPEG-2 SD: MP @ML HD: MP@HL
Resolution	SD: 576i25, 480i29.97 HD: 1080p-25/30/50/59.94/60 1080i-25, 29.97, 30 720p-50/60 * The maximum output resolution is 1080i30.
Bitrate Control	CBR
Bitrate	1,000~18,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	6~63
Audio	MPEG-1 Layer II, AC3, AAC
Audio Mode	Stereo (2.0, including downmix) Audio Pass through
Sampling Rate	48kHz
Power Consumption	Max. 16W

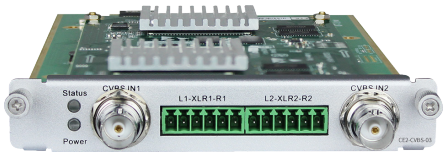
SPECIFICATIONS



OHE6-HDMI-06

HDMI Encoder	
Input	4 channels via 4 HDMI female connector (HDMI 1.4)
Video	H.264/AVC HD: MP/HP@ L4.0/4.1/4.2/5.0/5.1/5.2 H.265/HEVC HD: MP(High Tier)@L4.0/4.1/4.2/ 5.0/5.1/5.2
Resolution	Input: 1080i-25/29.97/30, 1080P-25/29.97/30/50/ 59.94/60, 720P-50/59.94/60 Output: 1080P-25/29.97/30/50/59.94/60, 720P-50/59.94/60
Max Output Resolution	1080P60 for 2 channels,1080P30 for 4 channels
Bitrate Control	CBR
Video Bitrate	600Kbps-12Mbps
GOP Structure	IPPP, IBBP
Aspect Ratio	16:9
Audio	MPEG-1 Layer II, AC3 (optional), AAC (optional)
Audio Bitrate	32~192 Kbps
Audio Mode	Stereo
Audio Sampling Rate	48KHz
Audio Volume Leveling	-20dB~20dB
OSD Overlay	2 x Logo/QR code overlay (40 x 40 to 256 x 256) Or 1 x static OSD overlay
Power Consumption	Max.20W

Notes: OHE6-HDMI-06 will output 4 HD programs with the same video resolution, which follows the highest video resolution among the input source, SD encoding is not supported.



OHE6-CVBS-03

Composite Encoder with Captions	
Interface	2 channels via 2 CVBS CVBS via BNC connector
Video	H.264/AVC SD: MP/HP@L3.0 MPEG-2 SD: MP @ML
Bitrate Control	CBR
Bitrate	800~20,000Kbps
GOP Structure	IBBP, IPPP, IBP
Audio	MPEG-1 Layer II, AC3, AAC
GOP Size	18-48
Resolution	SD: 576i50, 480i59.94
Audio Mode	Stereo (2.0, including downmix)
Sampling Rate	48kHz
Closed Caption Input	Support
Power Consumption	Max. 16W

OHE6-HDMI-02

HDMI Encoder with Captions	
Input	2 channels via 2 HDMI Female connectors (HDMI1.4) CC via RCA connector
Video	H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0 MPEG-2 SD: MP @ML HD: MP@HL
Resolution	SD: 576i25, 480i29.97 HD: 1080p-25/30/50/59.94/60 1080i-25, 29.97, 30 720p-50/60 * The maximum output resolution is 1080i30.
Bitrate Control	CBR
Bitrate	1,000~18,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	6~63
Audio	MPEG-1 Layer II, AC3, AAC
Audio Mode	Stereo (2.0, including downmix) Audio Pass through
Sampling Rate	48kHz
Power Consumption	Max. 16W

OHE6-CVBS-00

Composite Encoder	
Input	6 channels via 2 DB15 connector each DB15 for 3 channels 2 x RCA-DB15 adaptor cables come along with module
Video	H.264/AVC SD: MP/HP@L3.0 MPEG-2 SD: MP@ML
Resolution	SD: 576i25, 480i29.97
Bitrate Control	CBR
Bitrate	1,000~6,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	15
Audio	MPEG-1 Layer II
Audio Bitrate	64~384Kbps
Audio Mode	Stereo (2.0, including downmix)
Audio Sampling Rate	48kHz
Audio Volume Leveling	0dB~8dB
Power Consumption	Max. 17W

SPECIFICATIONS

OHP6-IP-02

IP Multiplexer	
Ethernet	2 x RJ45, 100/1000Base-T
Input	UDP/RTP via Unicast/Multicast
Output	UDP/RTP via Unicast/Multicast
Channels	DATA 1: 120 input & output DATA 2: 120 input & output
Effective Bitrate	Total bitrate 700Mbps throughput
Power Consumption	Max. 16 W

OHP6-IP-02-SFP

IP Multiplexer with SFPs	
Ethernet	2 x SFP, 100/1000Base-T
Input	UDP/RTP via Unicast/Multicast
Output	UDP/RTP via Unicast/Multicast
Channels	DATA 1: 120 input & output DATA 2: 120 input & output
Effective Bitrate	Total bitrate 700Mbps throughput
Power Consumption	Max. 16 W

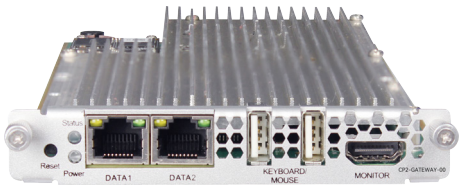
OHP6-ASI-00

ASI Input and Output	
Connector	5 x bidirectional ASI ports, BNC female
Bit rate	500Kbps to 150Mbps
Reception/ Transmission mode	Byte mode(Continuous mode)
Packet Length	188 Bytes or 204 Bytes
Configuration	3 ASI input ports, 2 ASI output ports by default, each port can be redefined as ASI input or ASI output port
Multiplexing	Support PSI/SI or PSIP table regeneration PID filtering External PID insertion
Power Consumption	Max. 12 W

OHP6-EAS-00

EAS Encoder	
Input	Digital EAS input (SCTE-18) via 1 × RJ45 port Analogue EAS input via 3PIN contact closure CVBS input via 1 × RCA connector Audio L/R input via 2 × RCA connector TS input via 1 × BNC connector
Video	H.264 SD: MP/HP@L3.0 MPEG-2 SD: MP @ML (By default)
Resolution	SD: 480i59.94
ASI	500Kbps to 100Mbps
Contact Closure	3PIN Connector with Dry Contact or 5~24V DC input for EAS trigger
RJ45	10/100M Ethernet for SCTE-18 digital EAS input
Bitrate Control	CBR
Bitrate	5,00~8,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	6~63
Audio	MPEG-1 Layer II, AC3, AAC
Audio Mode	Stereo (2.0, including downmix)
Sampling Rate	48kHz
Power Consumption	Max. 5.5W

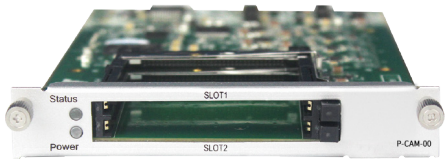
SPECIFICATIONS



OHP6-GATEWAY-00

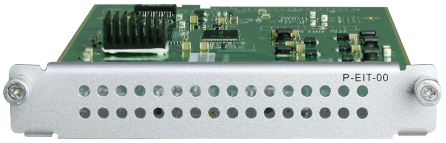
IP Gateway	
Network	2 x RJ45 ports, 100/1000M
Input Protocols	UDP/RTP/SRT/RIST/Zixi/HLS
Output Protocols	UDP/RTP/SRT/RIST/Zixi
Processing Capability For Typical Applications	HLS to UDP –Up to 40 input streams max 500Mbps(total bitrate) SRT to UDP –Up to 40 input streams max 600Mbps(total bitrate) UDP to SRT –Up to 40 input streams max 600Mbps(total bitrate) RIST to UDP–Up to 40 input streams max 600Mbps(total bitrate) UDP to RIST–Up to 40 input streams max 600Mbps(total bitrate) Zixi to UDP–Up to 40 input streams max 600Mbps(total bitrate) UDP to Zixi–Up to 40 input streams max 600Mbps(total bitrate) Max. bitrate per stream/gateway: 50Mbps *Input stream bitrates above 15Mbps may lower the overall performance. Check with a Sencore representative for assistance with performance calculations.
Number of Gateways	Default: 10 gateways, UDP/RTP/HLS input, UDP/RTP output Notice: Additional licenses are required to support more gateways and network protocols
Power Consumption	Max. 56W

*HDMI/USB: Only for module debugging function use, not for input/output



OHP6-CAM-00

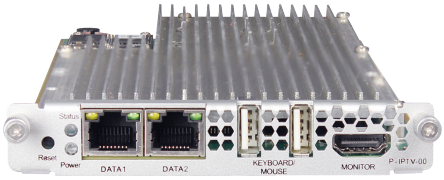
Descrambler	
Standard	EN 50221
Interface	2 x PCMCIA CI slots
CAM Scrambling	Support Xcrypt CAMCAS
CAM Descrambling	Supports mainstream CAS Descrambled channel quantity depends on CAM capability, 2 CAMs could be different
Power Consumption	Max. 6W



OHP6-EIT-00

EIT Multiplexer	
Input	DVB-S/S2/S2X/T/T2/C/ISDB-T/DTMB/IP
Output	QAM/OFDM/ISDB-T/DTMB/IP
Standard	DVB standard
Processing Capability	32 TS stream input, 16 TS stream output Up to 100 services depending on the EIT complexity of signal source
Content Processing	Automatic update for Original Network ID, TS ID and Service ID
EIT Table Generation	EIT table with PID 18 will be generated after the processing
TDT/TOT Table	TDT/TOT table with PID 20 will be passed through to the output
EIT Enable/Disable Control	Module Level, TS Level, Service Level
Supported EIT Module in Each Chassis	1
Status Display	Service name and service list Signal source and output module EIT multiplexing success/failure display at service level
Configuration	Configuration can be exported and imported to the module
Software Upgrade	Web-based software upgrade
Log	Support Enable/Disable control, Live logging and log file export
License	License control is available for authorization time control
Management	
Web-based Management	Yes
Power Consumption	Max. 5W

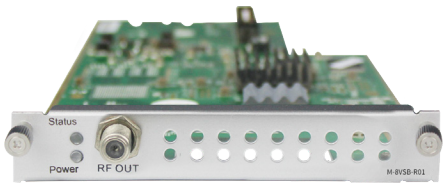
SPECIFICATIONS



OHP6-IPTV-00

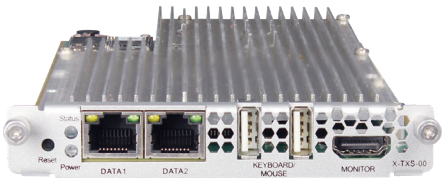
IPTV System Host	
IPTV solution for centralized management of Android-based set-top boxes	
Physical Ports	
Network	2 x external RJ45 ports, 100/1000M
HDMI	1 x HDMI 1.4 port For installation and maintenance
Inputs	
Input Protocols	UDP/RTP/HLS-TS
IP Addressing	Unicast, Multicast, OTT URL
IGMP Support Version	1, 2, and 3
IP Encapsulation	1 to 7 TS Packets per IP Packet
Outputs	
Interface	RJ45, 100/1000M Auto-Negotiate
Output Protocols	UDP/RTP/HLS-TS/MPEG-DASH
Power Consumption	Max. 48W
Processing	
Unicast (HLS) Mode	30 live SD/HD Channels and 200 Devices
Multicast Mode	30 live SD/HD Channels and 200 Devices

* Note: OHP6-IPTV-00 modules can be installed only in OMNIHUB 6-02/6D-02/ 6RFX-02.



OHM6-8VSB-R01

8VSB Modulator	
Output	4 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ATSC A/35
Frequency Range	50~860 MHz
Bandwidth	6MHz
Constellation	8VSB
Output Level	25-45dBmV
MER	≥32dB
Power Consumption	4CH: Max. 12W; 8CH: Max. 14W



OHX6-TXS-00

Multi-Channel Transcoder	
Network	2 x external RJ45 ports, 100/1000M
HDMI	1 x HDMI 1.4 port For installation and maintenance
Audio	
Input Audio format	MPEG-1 Layer II, AAC 2.0 and 5.1, AC-3 2.0 and 5.1, E-AC3 2.0 and 5.1
Output Audio format	MPEG-1 Layer II, AAC 2.0 and 5.1, AC-3 2.0 and 5.1, E-AC3 2.0 and 5.1
Audio Process	Up to 4 audio PIDs per video Pass-through supported
Video	
Input Video Decoding	Video Codec: MPEG-2/H.264/H.265 Video resolution: 576i25, 480i29.97, 720P50/60, 1080i25/29.97/30, 1080P25/30/50/59.94/60 Video bitrate: 1 to 40Mbps Network protocol: UDP, RTP, unicast, multicast
Output Video Encoding	Video Codec: MPEG-2/H.264/H.265 Video resolution: 576i25, 48029.97, 720P50/60, 1080i25/29.97/30, 1080P25/30/50/59.94/60 Video bitrate: 1 to 20Mbps Network protocol: UDP, RTP, unicast, multicast
Downscale	HD to SD video resolution
Closed Captions	CEA/EIA-708 Closed Caption passed through
DVB Subtitle	DVB subtitle passed through
Minimum Channels per Card (by Application)	ATSC-Standard OTA/QAM Provisioning Full HD HEVC to HD MPEG-2 - 6 Channels per Card Full HD H264 to HD MPEG-2 - 7 Channels per Card HD HEVC to HD MPEG-2 - 8 Channels per Card HD H264 to HD MPEG-2 - 7 Channels per Card SD HEVC to SD MPEG-2 - 20 Channels per Card SD H264 to SD MPEG-2 - 28 Channels per Card Rate-Shaping Applications MPEG-2 HD to HD HEVC - 6 Channels per Card MPEG-2 HD to HD H264 - 5 Channels per Card HD H264 to HD H264 - 5 Channels per Card HD HEVC to HD HEVC - 4 Channels per Card Notes: The supported channels may vary from resolution/codec/bitrate.
Power Consumption	Max. 48W

* Note: OHX6-TXS-00 modules can be installed only in OMNIHUB 6-02/6D-02/ 6RFX-02.

SPECIFICATIONS

OHD6-SDI-00

SDI Decoder	
SD/HD/3G-SDI Output	4xSDI,BNC female connector，75Ω
Video/Profile	MPEG-2 SD MP@ML MPEG-2 HD MP@ML H.264 SD MP@L3/L3.1 H.264 HD MP@L4.1/HP@L4.1 H.265 Main/Main 10 profile@L5.1 High-tier AVS-P 16(AVS+) AVS2 P2 10-bit Profile @Level 8.2.60
Bit depth	4:2:0 8bit
Resolution	Automatic/Manual mode (with manual mode resolution): 720x576i@25 720x480i@29.97 1280x720p@50/59.94/60 1920x1080i@25/29.97/30 1920x1080p@25/30/50/ 59.94/60
Downscale	4K to HD/SD resolution, HD to SD resolution
Aspect ratio	16:9、4:3
Audio process	2 Audio channels decode per video
Audio format	MPEG-l Layer II Dolby Digital/AC-3(optional) Dolby Digital Plus/E-AC3(optional) AAC-LC/HE-AACV1/HE-AACV2(optional)
Audio mode	Stereo
Audio volume control	0-100%
Audio Sampling Rate	48KHZ,44.1KHZ
Closed Captions	Closed Caption(CEA/EIA-608/708)
Power Consumption	Max. 25W

OHM6-QAMA-8

QAM-A/C Modulator	
Output	8 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ITU-T J.83 Annex A/C
Frequency Range	47~862MHz, non adjacent
Bandwidth	6/7/8MHz
Constellation	16QAM/32QAM/64QAM/128QAM/256QAM
Symbol Rate	6M:4.035~5.217Mbaud 7M:4.035~6.087Mbaud 8M:4.035~6.956Mbaud
Output Level	25-45dBmV
MER	≥38dB (channel fully open)
Power Consumption	Max. 23W

OHM6-OFDM-8

DVB-T Modulator	
Output	8 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ETSI EN 300744(DVB-T)
Frequency Range	47~862MHz, non adjacent
Bandwidth	6/7/8MHz
Constellation	QPSK/16QAM/64QAM
Guard Intervals	1/4, 1/8, 1/16, 1/32
FFT Size	2K
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Output Level	25-45dBmV
MER	≥32dB (channel fully open)
Power Consumption	Max. 23W

SPECIFICATIONS

OHM6-QAMA-16

QAM-A/C Modulator	
Output	16 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ITU-T J.83 Annex A/C
Frequency Range	47~862MHz, non adjacent
Bandwidth	6/7/8MHz
Constellation	16QAM/32QAM/64QAM/128QAM/256QAM
Symbol Rate	6M:4.035~5.217Mbaud 7M:4.035~6.087Mbaud 8M:4.035~6.956Mbaud
Output Level	22-42dBmV
MER	≥38dB (channel fully open)
Power Consumption	Max. 23W

OHM6-QAMB-8

QAM-B Modulator	
Output	8 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ITU-T J.83 Annex B
Frequency Range	47~862MHz (STD/IRC/HRC), non adjacent
Bandwidth	6MHz
Constellation	64QAM/256QAM
Symbol Rate	5.057MBaud: 64QAM 5.361MBaud: 256QAM
Output Level	25-45dBmV
MER	≥38dB (channel fully open)
Power Consumption	Max. 23W

OHM6-OFDM-16

DVB-T Modulator	
Output	16 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ETSI EN 30074454(DVB-T)
Frequency Range	47~862MHz, non adjacent
Bandwidth	6/7/8MHz
Constellation	QPSK/16QAM/64QAM
Guard Intervals	1/4, 1/8, 1/16, 1/32
FFT Size	2K
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Output Level	22-42dBmV
MER	≥32dB (channel fully open)
Power Consumption	Max. 23W

OHM6-ISDBT-8

ISDB-T Modulator	
Output	8 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ARIB STD-B31(ISDB-T)
Frequency Range	47~862MHz, non adjacent
Bandwidth	6MHz
Constellation	QPSK/16QAM/64QAM
Guard Intervals	1/4, 1/8, 1/16, 1/32
Transmission Mode	2K
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Output Level	25-45dBmV
MER	≥32dB (channel fully open)
Power Consumption	Max. 23W

SPECIFICATIONS

OHM6-QAMB-16

QAM-B Modulator	
Output	16 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ITU-T J.83 Annex B
Frequency Range	47~862MHz (STD/IRC/HRC), non adjacent
Bandwidth	6MHz
Constellation	64QAM/256QAM
Symbol Rate	5.057MBaud: 64QAM 5.361MBaud: 256QAM
Output Level	22-42dBmV
MER	≥38dB (channel fully open)
Power Consumption	Max. 23W

OHM6-ISDBT-16

ISDB-T Modulator	
Output	16 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ARIB STD-B31（ISDB-T)
Frequency Range	47~862MHz, non adjacent
Bandwidth	6MHz
Constellation	QPSK/16QAM/64QAM
Guard Intervals	1/4, 1/8, 1/16, 1/32
Transmission Mode	2K
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Output Level	22-42dBmV
MER	≥32dB (channel fully open)
Power Consumption	Max. 23W

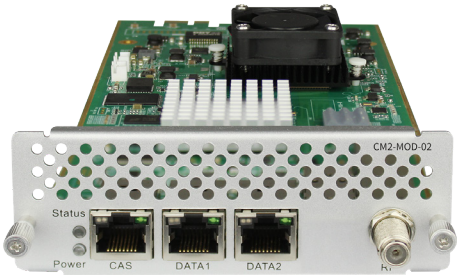
OHM6-8VSB-8

8VSB Modulator	
Output	8 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ATSC A/35
Frequency Range	50~860 MHz(Off-Air/STD/IRC/HRC)
Bandwidth	6MHz
Constellation	8VSB
Output Level	25-45dBmV
MER	≥32dB (channel fully open)
Power Consumption	Max. 19W

OHM6-8VSB-16

8VSB Modulator	
Output	16 Channels/Frequencies via 1 RF female connector 75Ω
Standard	ATSC A/35
Frequency Range	50~860 MHz(Off-Air/STD/IRC/HRC)
Bandwidth	6MHz
Constellation	8VSB
Output Level	22-42dBmV
MER	≥32dB (channel fully open)
Power Consumption	Max. 19W

SPECIFICATIONS



OHM6-QAMA/B-02

IP to QAM Modulator	
IP input	2x100/1000Mbps ports
IP Encapsulation	MPEG TS over UDP/RTP
MPEG TS	MPTS and SPTS
I/O Processing	Up to 512 channels via 2xGbE inputs
Addressing	Unicast and multicast
IGMP Version	IGMP v2, IGMP v3
QAM Output	
Output	1xRF port, max 16/32 agile channels QAM modulation
Standard	ITU-T J.83 Annex A/B/C
QAM Constellation	64/256 QAM, configurable for each frequency
Symbol Rate	3.6~7Mbauds
Output Level	30-45dBmV according to modulation frequency quantity
Output Range	57~858MHz
Bandwidth	6/7/8MHz
MER	≥43dB (equalized)
PCR Correction	Support
Multiplexing	
Table Supported	SI/PSI
PID Processing	Pass-through, remapping, filtering
EIT Processing	Pass-through
External Data	EPG, PID and SI insertion
Scrambling	
Interface	1x100/1000 Mbps port
Scrambling Algorithms	CSA
SCS	Internal
CAS Connections	Up to 4 different CA systems
Supported CAS	Support major CA systems
Max. TS rate	1.6Gbps
EMM Bitrate	Up to 3Mbps
Power Consumption	Max. 45W

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE