

OmniHub 6



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OmniHub 6D

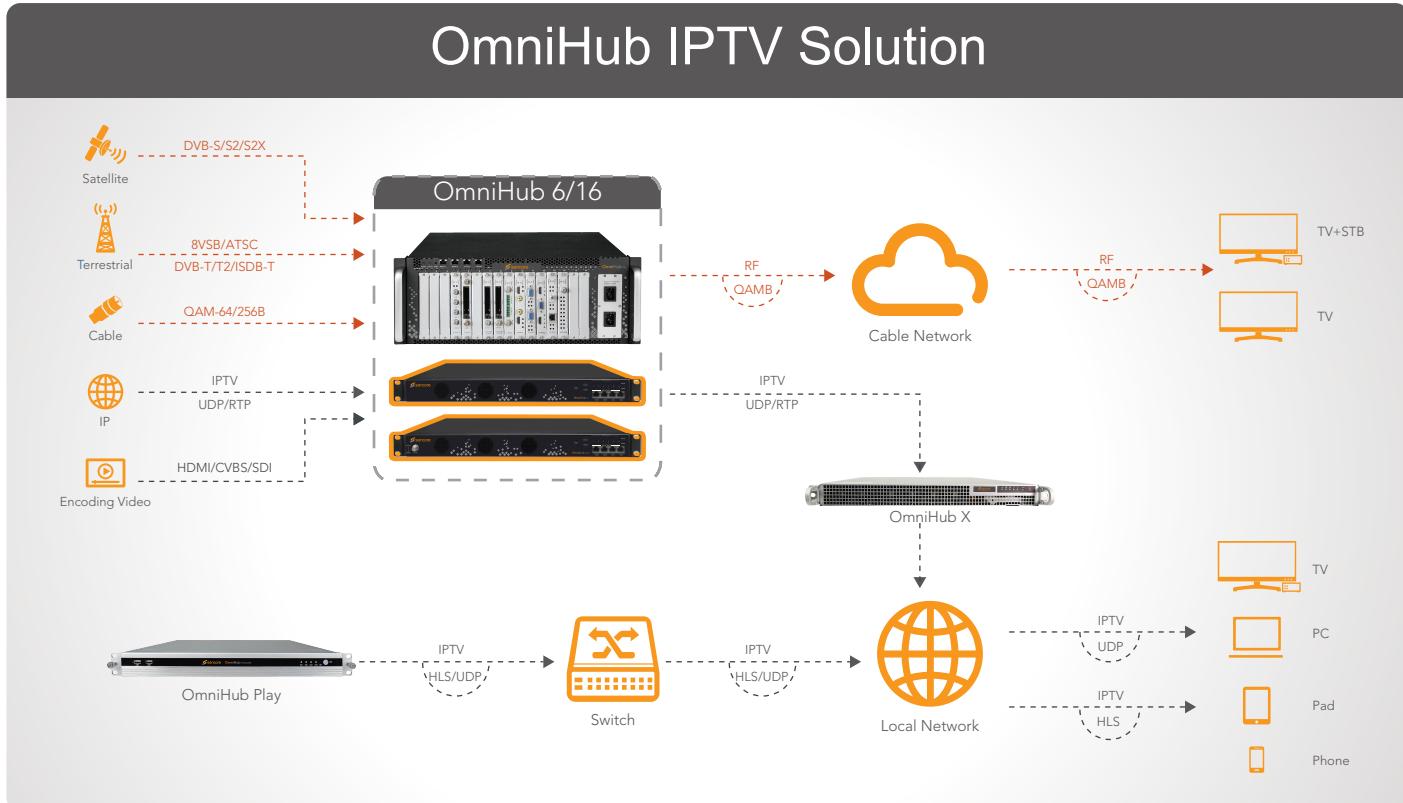


OmniHub 6RFX

INTRODUCTION

OmniHub 6 is the next generation of modular video processing by Sencore. The chassis comes with a single or dual power supply option and accommodates up to six modules. Using a built-in IP switch and diverse range of hot-swappable input/output options, OmniHub 6 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 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.

APPLICATION



FEATURES

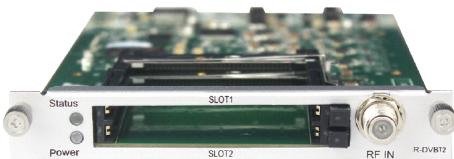
- 19" 1RU standard rack unit
- Optional dual power supplies (OmniHub 6D)
- Optional 8-CH adjacent QAM/DTMB/OFDM modulation module on front panel (OmniHub 6RFX)
- 4 GbE Ethernet ports on front panel (2 for management, 2 for IP stream in/out)
- Supports 120 IP inputs and 120 IP outputs, SPTS/MPTS
- 6 slots for hot-swappable functional modules on rear panel

- Supports up to 24 HDMI HD encoding
- Supports up to 48 CVBS SD encoding
- Supports reception of up to 24 coax channel frequencies (QAM-B, DVB-S/S2/S2X, 8VSB)
- User-friendly web-interface setup and module upgrades
- Simple installation and easy configuration

Chassis
1RU with 6 slots for hot-swappable modules
Dual redundant power supplies
Service-level multiplexing
4 x Gigabit RJ45 (embedded):
• MPEG TS over UDP/RTP multicast/unicast SPTS/MPTS
• Max. 120 inputs and 120 outputs

Physical & Environment	
Input Voltage	100~240 VAC/50-60Hz
Power Consumption	Max. 120W
Chassis Dimension (W x H x D)	480mm x 44mm x 430mm (18.90" x 1.73" x 16.93"), 1 RU
Operating Temperature	0°C~50°C (32°F ~ 122°F)
Storage Temperature	-10°C~70°C (14°F ~ 174.2°F)
Operating Humidity	<95%
MTBF	≥100,000 hours

SPECIFICATIONS



OHR6-DVBT2CI-00

DVB-T/T2	
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/256QAM
Guard Interval	DVB-T: 1/4, 1/8, 1/16, 1/32 DVB-T2: 1/4, 1/8, 1/16, 1/32, 1/128 19/256, 19/128
FFT Size	DVB-T: 2K, 8K DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K
Signal Level	-80~-20dBm
CA System	Supports mainstream CAS
Power Consumption	Max. 8W



OHM6-OFDM-R01/R01A

OFDM	
Output	4/8 frequencies via 1 RF female connector 75Ω
Standard	ETSI EN 300744
Frequency Range	47~862MHz
Bandwidth	8MHz
Constellation	QPSK/16QAM/64QAM
Guard Intervals	1/4, 1/8, 1/16, 1/32
FFT Size	2K, 8K
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Output Level	Max. 105dB _P V
MER	≥32dB
Power Consumption	4CH: Max. 23W; 8CH: Max. 27W



OHE6-HDMI-00

HDMI	
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: 576i50, 480i59.94 HD: 1080p-25/30/50/59.94/60 1080i-50/59.94/60 720p-50/60 *Output resolution supports up to 1920*1080p30
Bitrate Control	CBR
Video Bitrate	1,000~14,000Kbps
GOP Structure	IBBP, IPPP, IBP
GOP Size	6~63
Aspect Ratio	Automatic or Manual
Audio	MPEG-1 Layer II, AC3 (optional), AAC (optional)
Audio Bitrate	32~384Kbps
Audio Mode	Stereo (2.0, including downmix)
Audio Sampling Rate	48kHz
Audio Volume Leveling	-20dB~20dB
Power Consumption	Max. 12W



OHE6-HDMI-S04

HEVC	
Input	4 channels via 4 HDMI female connectors (HDMI 1.4)
Video	H.264/AVC MP/HP@4.2
Resolution	HD: 1080p-29.97/30/50/59.94/60 1080i-29.97/30/50/59.94/60 720p-50/59.94/60 SD: 576i50 576p50 480i-59.94/60 480p-59.94/60 *Output supports progressive only
Bitrate Control	CBR
Video Bitrate	600~20000 Kbps
GOP Structure	IPPP
GOP Size	1~60
Aspect Ratio	Automatic or Manual
Audio	MPEG-1 Layer II, AC3 (optional), AAC (optional)
Audio Bitrate	32~192 Kbps
Audio Mode	Stereo 2.0
Audio Sampling Rate	48kHz
Audio Volume Leveling	-20dB~20dB
OSD Overlay	Text, Image, QR Code
Power Consumption	Max. 15W