



OmniHub 16



OmniHub 6



OmniHub 6D



OmniHub 6RFX

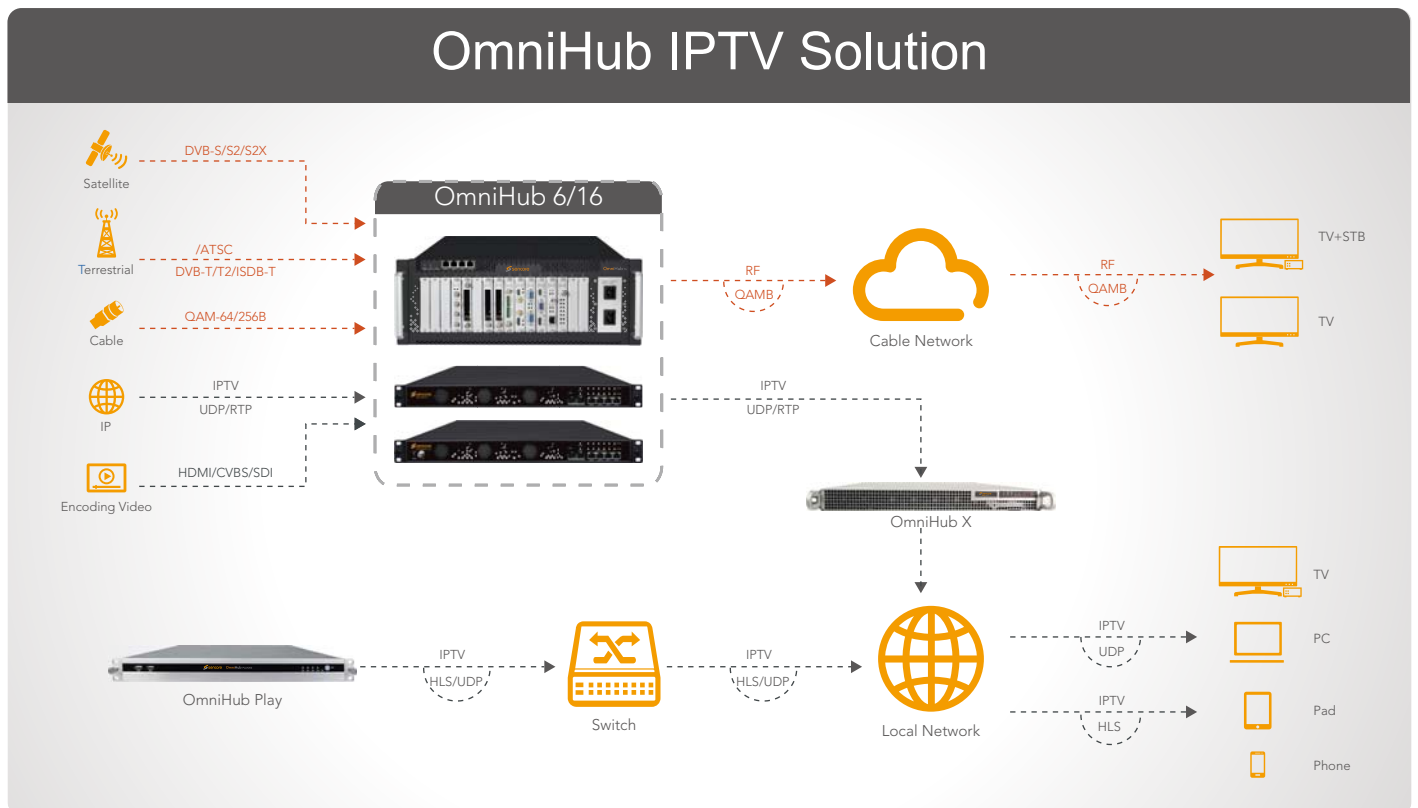
## INTRODUCTION

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) |

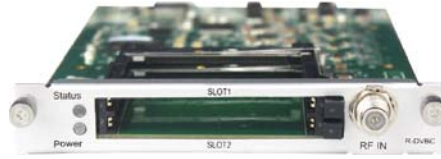
## APPLICATION



| Chassis   |
|---|
| 4RU with 16 slots for hot-swappable modules<br>1RU with 6 slots for hot-swappable modules   |
| Dual redundant power supplies   |
| Service-level multiplexing  |
| 4 x Gigabit RJ45, 2 SFP (embedded): <ul style="list-style-type: none"> <li>• MPEG TS over UDP/RTP multicast/unicast SPTS/MPTS</li> <li>• Max. 120 inputs and 120 outputs</li> </ul> |
| Total bitrate 350Mbps of throughput (700Mbps aggregated IN+OUT)<br>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<br>480mm x 177mm x 345mm (18.90" x 6.97" x 13.58"), 4RU |
| 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   |

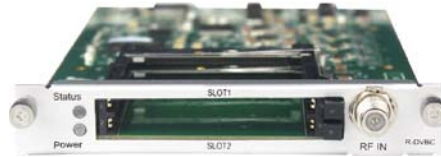
# SPECIFICATIONS



OHR6-DVBC-00

| DVB-C             |   |
|-------------------|---|
| 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 |
| 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      | 40~80dBuV   |
| CA System         | Supports mainstream CAS   |
| Power Consumption | Max. 9.5W   |

| DTMB              |   |
|-------------------|---|
| 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 |
| Modulation Mode   | TDS-OFDM  |
| Frequency Range   | 47~862MHz   |
| Constellation     | 4QAM-NR/4QAM/16QAM/32QAM/64QAM  |
| Signal Level      | -65~-25dm   |
| CA System         | Supports mainstream CAS   |
| Power Consumption | Max. 9.5W   |



OHR6-DVBC-ISDBT-01

| DVBC Annex B      |   |
|-------------------|---|
| 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 |
| QAM Mode          | Annex B   |
| Frequency Range   | 47~862MHz   |
| Bandwidth         | 6MHz  |
| Constellation     | 64QAM, 256QAM   |
| Symbol Rate       | 5.057Ms/s (64QAM)<br>5.360Ms/s (256QAM)   |
| Signal Level      | 40~80dBuV   |
| CA System         | Supports mainstream CAS   |
| Power Consumption | Max. 9.5W   |

| ISDB-T            |   |
|-------------------|---|
| 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   | 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      | -80~-20dBm  |
| CA System         | Supports mainstream CAS   |
| Power Consumption | Max. 9.5W   |

# SPECIFICATIONS



OHR6-DVBS2FTA-01

| DVB-S/S2/S2X      |   |
|-------------------|---|
| Input             | C/Ku Band, 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<br>DVB-S2: QPSK, 8PSK, 16APSK,<br>DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK   |
| Frequency Range   | 950~2150MHz   |
| Signal Level      | -70~-20dBm  |
| Roll-off Factor   | 0.15, 0.20, 0.25, 0.35  |
| Symbol Rate       | DVB-S: 1~45Msps<br>DVB-S2: 1~45Msps<br>DVB-S2X: 1~34 Msps   |
| FEC               | DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8<br>DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10<br>DVB-S2X: 11/15, 7/9, 4/5, 5/6<br>(Normal FEC FECFRAME) |
| Power Consumption | Max. 38W  |



OHR6-DVBS2FTA-01A

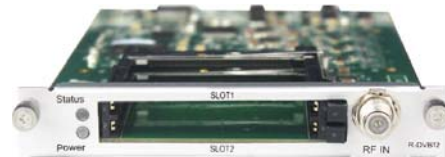
| DVB-S/S2/S2X      |   |
|-------------------|---|
| Input             | C/Ku Band, 8 channels via 8 RF female connectors  |
| LNB Power         | Independent power supplies for each LNB   |
| LNB Voltage       | 13V/18V   |
| LNB Current       | Max. 400mA  |
| Constellation     | DVB-S: QPSK<br>DVB-S2: QPSK, 8PSK, 16APSK,<br>DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK   |
| Frequency Range   | 950~2150MHz   |
| Signal Level      | -70~-20dBm  |
| Roll-off Factor   | 0.15, 0.20, 0.25, 0.35  |
| Symbol Rate       | DVB-S: 1~45Msps<br>DVB-S2: 1~45Msps<br>DVB-S2X: 1~34 Msps   |
| FEC               | DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8<br>DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10<br>DVB-S2X: 11/15, 7/9, 4/5, 5/6<br>(Normal FEC FECFRAME) |
| Power Consumption | Max. 70W  |

Notes: If 2 or 3 modules are needed in the same chassis, please contact your sales.



OHR6-DVBS2CI-01

| DVB-S/S2/S2X      |   |
|-------------------|---|
| Input             | C/Ku Band, 4 channels via 2 RF female connectors<br>CH1 & CH2 via LNB-1<br>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<br>DVB-S2: QPSK, 8PSK, 16APSK<br>DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK  |
| Frequency Range   | 950~2150MHz   |
| Signal Level      | -70~-20dBm  |
| Roll-off Factor   | 0.15, 0.20, 0.25, 0.35  |
| Symbol Rate       | DVB-S: 1~45Msps<br>DVB-S2: 1~45Msps<br>DVB-S2X: 1~34 Msps   |
| FEC               | DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8<br>DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10<br>DVB-S2X: 11/15, 7/9, 4/5, 5/6<br>(Normal FEC FECFRAME) |
| CA System         | Supports mainstream CAS   |
| Power Consumption | Max. 22W  |



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<br>DVB-T2: QPSK/16QAM/64QAM                               |
| Guard Interval    | DVB-T: 1/4, 1/8, 1/16, 1/32<br>DVB-T2: 1/128                                      |
| FFT Size          | DVB-T: 2K, 8K<br>DVB-T2: 8K, 16K, 32K   |
| Signal Level      | -80~-20dBm  |
| CA System         | Supports mainstream CAS   |
| Power Consumption | Max. 8W   |

# SPECIFICATIONS



OHR6-8VSB-00

| 8VSB              |                                      |
|-------------------|--------------------------------------|
| Input             | 4 channels via 4 RF female connector |
| Frequency Range   | 50~860MHz                            |
| Bandwidth         | 6MHz                                 |
| Modulation        | 8VSB                                 |
| Signal Level      | -80~-20dBm                           |
| Power Consumption | Max. 9.5W                            |



OHE6-SDI-01

| SDI               |  |
|-------------------|--|
| Input             | 2 channels via 2 SDI<br>SDI via BNC connector  |
| Video             | H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0<br>MPEG-2 SD: MP @ML HD: MP@HL  |
| Resolution        | SD: 576i25, 480i29.97<br>HD: 1080p-25/30/50/59.94/60<br>1080i-25, 29.97, 30<br>720p-50/60<br>* 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)<br>Audio Pass through  |
| Audio Processing  | 2 x audio services / PIDs  |
| Sampling Rate     | 48kHz  |
| Power Consumption | Max. 16W   |



OHE6-HDMI-02C

| HDMI              |  |
|-------------------|--|
| Input             | 2 channels via 2 HDMI or 2 component<br>Female connectors (HDMI1.4)<br>CC/Component input via DB15 port                                  |
| Video             | H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0<br>MPEG-2 SD: MP @ML HD: MP@HL  |
| Resolution        | SD: 576i25, 480i29.97<br>HD: 1080p-25/30/50/59.94/60<br>1080i-25, 29.97, 30<br>720p-50/60<br>* 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)<br>Audio Pass through  |
| Sampling Rate     | 48kHz  |
| Power Consumption | Max. 16W   |



OHE6-HDMI-02

| HDMI              |  |
|-------------------|--|
| Input             | 2 channels via 2 HDMI<br>Female connectors (HDMI1.4)<br>CC via RCA connector   |
| Video             | H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0<br>MPEG-2 SD: MP @ML HD: MP@HL  |
| Resolution        | SD: 576i25, 480i29.97<br>HD: 1080p-25/30/50/59.94/60<br>1080i-25, 29.97, 30<br>720p-50/60<br>* 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)<br>Audio Pass through  |
| Sampling Rate     | 48kHz  |
| Power Consumption | Max. 16W   |

# SPECIFICATIONS



OHE6-HDMI-R01

| HDMI                  |  |
|-----------------------|--|
| Input                 | 4 channels via 4 HDMI female connectors (HDMI 1.4)   |
| Video                 | H.264/AVC HD: MP/HP@L4.0<br>SD: MP/HP@L3.0<br>MPEG-2 SD: MP@ML   |
| Resolution            | SD: 576i25, 480i29.97<br>HD: 1080p-25/30/50/59.94/60<br>1080i-25, 29.97, 30<br>720p-50/60<br>* 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-HDMI-06

| HEVC                  |  |
|-----------------------|--|
| 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<br>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<br>Output: 1080P-25/29.97/30/50/59.94/60, 720P-50/59.94/60 |
| 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)<br>Or 1 x static OSD overlay   |
| Power Consumption     | Max.20W  |

Notes: OHE6-HDMI-06 will forcefully output 4 HD programs with same video resolution which follows the largest video resolution among the input source, SD encoding is not supported. Max output resolution is 1080p60 for 2 channel encoding, 1080p30 for 4 channel encoding



OHE6-CVBS-00

| CVBS                  |  |
|-----------------------|--|
| Input                 | 6 channels via 2 DB15 connector each DB15 for 3 channels<br>2 x RCA-DB15 adaptor cables come along with module |
| Video                 | H.264/AVC SD: MP/HP@L3.0<br>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   |



OHE6-CVBS-03

| CVBS                 |   |
|----------------------|---|
| Interface            | 2 channels via 2 CVBS<br>CVBS via BNC connector |
| Video                | H.264/AVC SD: MP/HP@L3.0<br>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  |

# SPECIFICATIONS



OHE6-CVBS-R01

| CVBS                  |  |
|-----------------------|--|
| Input                 | 16 channels via 4 DB15 connectors, each DB15 for 4 channels 4 x RCA-DB15 adaptor cables come along with module |
| Video                 | H.264/AVC SD: MP/HP@L3.0   |
| Resolution            | SD: 576i25, 480i29.97  |
| Bitrate Control       | CBR  |
| Bitrate               | 600~6,000Kbps  |
| GOP Structure         | IPPP   |
| GOP Size              | 1~60   |
| Audio                 | MPEG-1 Layer II  |
| Audio Bitrate         | 32~192Kbps   |
| Audio Mode            | Stereo (2.0, including downmix)  |
| Sampling Rate         | 48kHz  |
| Audio Volume Leveling | -20dB~20dB   |
| OSD Overlay           | Text, Image, QR Code   |
| Power Consumption     | Max. 18W   |

\* Does NOT support PAL-N



OHP6-IP-00

| IP   |  |
|--|--|
| Network  | 1 x Internal port, 100/1000M<br>3 x External RJ45 ports, 100/1000M   |
| HDMI   | 1 x HDMI 2.0 port<br>Connect to LCD Monitor  |
| USB  | 1 x USB 2.0 port<br>Connect to external USB Hub for keyboard/mouse/USB DVD drive   |
| Input Protocols                                | UDP/RTP/HLS/SRT/RIST/Zixi  |
| Output Protocols                               | UDP/RTP/SRT/RIST/Zixi  |
| Processing Capability For Typical Applications | Up to 20 Streams/Gateways<br>HLS to UDP – 150mbps of throughput<br>SRT/RIST/ZIXI to UDP – 150mbps of throughput<br>UDP to SRT/RIST/ZIXI – 150mbps of throughput, max 70 sessions |
| Number of Gateways                             | Default: 10 Streams/Gateways, UDP/RTP/HLS input, UDP/RTP output<br>Notice: Additional license are required to support more gateways and network protocols                        |
| Power Consumption                              | Max. 16W   |



OHP6-IP-02

| IP                |  |
|-------------------|--|
| 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<br>DATA 2: 120 input & output |
| Effective Bitrate | Total bitrate 700Mbps throughput                         |
| Power Consumption | Max. 16 W  |



OHP6-IP-02-SFP

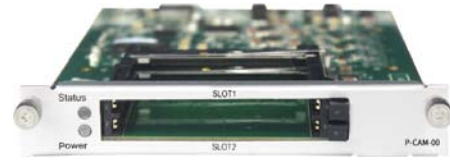
| IP                |  |
|-------------------|--|
| Ethernet          | 2 x SFP, 100/1000Base-T                                  |
| Input             | UDP/RTP via Unicast/Multicast                            |
| Output            | UDP/RTP via Unicast/Multicast                            |
| Channels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

# SPECIFICATIONS



OHP6-ASI-00

| ASI                          |  |
|------------------------------|--|
| 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   |
| Working mode                 | 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<br>PID filtering<br>External PID insertion                         |
| Power Consumption            | Max. 12 W  |



OHP6-CAM-00

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



OHP6-EAS-00

| EAS               |   |
|-------------------|---|
| Input             | Digital EAS input (SCTE-18) via 1 x RJ45 port<br>Analogue EAS input via 3PIN contact closure<br>CVBS input via 1 x RCA connector<br>Audio L/R input via 2 x RCA connector<br>TS input via 1 x BNC connector |
| Video             | H.264 SD: MP/HP@L3.0<br>MPEG-2 SD: MP @ML (By default)  |
| Resolution        | SD: 480i/59.94  |
| 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, IPPPP, 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   |



OHP6-EIT-00

| Encoding                             |   |
|--------------------------------------|---|
| 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<br>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<br>Signal source and output module<br>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,<br>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



OHX6-TXS-00

| System  |  |
|---|--|
| IPTV solution for centralized management of Android-based set-top boxes |  |
| Physical Ports  |  |
| Network   | 2 x external RJ45 ports, 100/1000M<br>1 x Internal port, 100/1000M |
| HDMI  | 1 x HDMI 1.4 port<br>Connect to LCD Monitor                        |
| Inputs  |  |
| Input Protocols   | UDP/RTP/HLS  |
| 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/MPEG-DASH  |
| Power Consumption   | Max. 48W   |

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

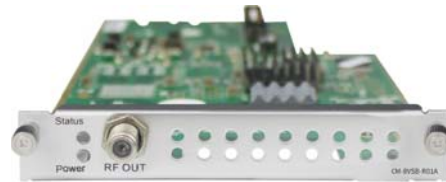
| Physical Ports        |  |
|-----------------------|--|
| Network               | 2 x external RJ45 ports, 100/1000M<br>1 x Internal port, 100/1000M   |
| HDMI                  | 1 x HDMI 1.4 port<br>Connect to LCD Monitor  |
| Audio                 |  |
| Input Audio format    | Mpeg-1 Layer II, AAC 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<br>Pass-through supported   |
| Video                 |  |
| Input Video Decoding  | Video format: Mpeg-2/H.264/H.265<br>Video resolution: 576i25, 480i29.97, 720P50/60, 1080i25/29.97/30, 1080P25/30/50/59.94/60<br>Video bitrate: 1 to 40Mbps<br>Network protocol: UDP, RTP, unicast, multicast |
| Output Video Encoding | Video format: Mpeg-2/H.264/H.265<br>Video resolution: 576i25, 480i29.97, 720P50/60, 1080i25/29.97/30, 1080P25/30/50/59.94/60<br>Video bitrate: 1 to 20Mbps<br>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  |
| Power Consumption     | Max. 48W   |

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



OHM6-QAMA-03

| QAMA              |   |
|-------------------|---|
| Output            | 8 agile frequencies via 1 RF female connector 75Ω |
| Standard          | ITU-T J.83 Annex A/C                              |
| Frequency Range   | 47~862MHz, non adjacent                           |
| Bandwidth         | 8MHz  |
| Constellation     | 16QAM/32QAM/64QAM/128QAM/256QAM                   |
| Symbol Rate       | 3.6~6.9 Ms/s                                      |
| Output Level      | Max. 105dBμV                                      |
| MER               | ≥32dB   |
| Power Consumption | 8CH: Max. 23W                                     |



OHM6-8VSB-R01/R01A

| 8VSB              |   |
|-------------------|---|
| Output            | 4/8 frequencies via 1 RF female connector 75Ω |
| Standard          | ATSC A/35                                     |
| Frequency Range   | 50~860 MHz                                    |
| Bandwidth         | 6MHz  |
| Constellation     | 8VSB  |
| Output Level      | Max. 105dBμV                                  |
| MER               | ≥40dB   |
| Power Consumption | 4CH: Max. 12W; 8CH: Max. 14W                  |

# SPECIFICATIONS



OHM6-QAMB-03

| QAMB              |   |
|-------------------|---|
| Output            | 8 frequencies via 1 RF female connector 75Ω |
| Standard          | ITU-T J.83 Annex B                          |
| Frequency Range   | 47~862MHz, non adjacent                     |
| Bandwidth         | 6/7/8 MHz                                   |
| Constellation     | 4QAM/256QAM                                 |
| Symbol Rate       | 5.057MBaud: 64QAM<br>5.361MBaud:256QAM      |
| Output Level      | Max. 108dBμV                                |
| MER               | ≥40dB                                       |
| Power Consumption | Max. 23W                                    |



OHM6-OFDM-03

| OFDM              |   |
|-------------------|---|
| Output            | 8 agile frequencies via 1 RF female connector 75Ω |
| Standard          | ETSI EN 300744                                    |
| Frequency Range   | 47~862MHz   |
| Bandwidth         | 6/7/8MHz  |
| 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. 105dBμV                                      |
| MER               | ≥32dB   |
| Power Consumption | 8CH: Max. 27W                                     |



OHM6-QAMB-R00

| QAM               |  |
|-------------------|--|
| Output            | 16 agile frequencies via 1 RF female connector 75Ω |
| 1 x RJ45          | Reserved for scrambling                            |
| Standard          | ITU-T J.83 Annex B                                 |
| Frequency Range   | 47~862MHz  |
| Bandwidth         | 6MHz   |
| Constellation     | 64QAM/256QAM                                       |
| Symbol Rate       | 3.6~6.9Ms/s  |
| Output Level      | Max. 106dBμV                                       |
| MER               | >40dB  |
| Power Consumption | Max. 28W   |

# SPECIFICATIONS



OHM6-QAMA/B-02

| IPQAM                 |   |
|-----------------------|---|
| IP input              | 2x100/1000Mbps ports                                      |
| IP Encapsulation      | MPEG TS over UDP/RTP                                      |
| MPEG TS               | MPTS and SPTS   |
| I/O Processing        | Up to 512 channels either via 2xGbE input                 |
| 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          | 90dBuV~115dBuV 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  |



OHM6-ISDB-T-03

| ISDB-T            |  |
|-------------------|--|
| Output            | 8 agile frequencies via 1 RF female connector, 75Ω |
| Standard          | ETSI EN 300744                                     |
| Frequency Range   | 47-862MHz  |
| Bandwidth         | 6MHz   |
| Constellation     | QPSK, 16QAM, 64QAM                                 |
| Transmission Mode | 2K   |
| RS Code           | RS(204.188)  |
| FEC               | 1/2, 2/3, 3/4, 5/6, 7/8                            |
| Guard Interval    | 1/4, 1/8, 1/16, 1/32                               |
| Hierarchy Mode    | Layer A  |
| Segment Mode      | Full Seg   |
| Output Level      | Max. 105dBμV                                       |
| MER               | ≥42dB  |
| Power Consumption | Max. 23W   |

\* The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.