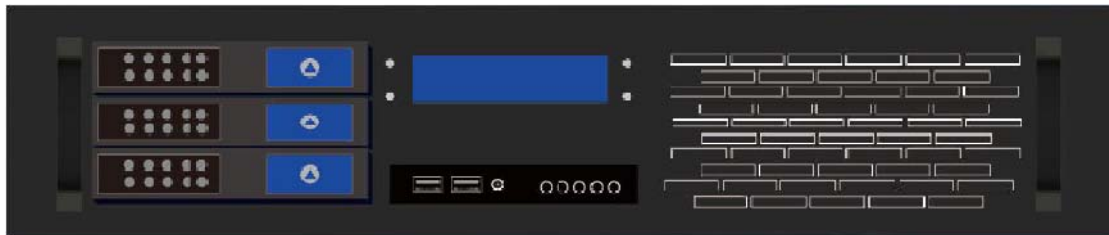


IPTV/OTT Streamer and Delivery Station

Model: DS-160



Main Feature:

- Based on the powerful x86 PC server with Linux operating system
- 7 PCI slots for satellite, terrestrial tuner and encoder input cards
- DVB to IP streamer with demux MPTS to STPS IP streams
- TV and VOD content delivery streaming in HLS format
- Trans-coding H.265, H.264 and MPEG2 assisted by powerful GPU card
- Private DRM for content protection, managed by TMS-100
- Adaptive trans-coding in option



Technical Specification:

DVB-T2/T Tuning and De-Multiplexing

Connector	4 to 24 F type female 75Ω for Input
Input Frequency	104~862MHz (VHF/UHF)
Input Level	-70 ~ -20dBm
Demod standard	DVB-T(EN 300 744) and DVB-T2 (EN302 755)
Demodulation	QPSK, 16QAM, 64QAM for DVB-T QPSK, 16QAM, 64QAM, 256QAM for DVB-T2
FFT Mode	2K, 8K for DVB-T 1K, 2K, 4K, 8K, 16K, 32K, 32K ext for DVB-T2
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 for DVB-T 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 for DVB-T2
Guard Interval	1/4, 1/8, 1/16, 1/32 for DVB-T 1/4, 19/128, 1/8, 19/256, 1/16, 1/32, 1/128 for DVB-T2
Bandwidth	6MHz, 7MHz, 8MHz
De-multiplexer	MPEG2 ISO/IEC 13818-1

DVB-S/S2 Tuning and De-Multiplexing

Connector Type	4 to 24 F type female 75Ω for Input
Input Frequency Range	950~2150MHz
Input Level	-25~-65dBm
Symbol Rate	2~45MBaud
Roll-off Factor	DVB-S QPSK: 0.35 DVB-S2 8PSK: 0.35, 0.25, 0.2
FEC Code Rate	DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2 QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
LNB Polarity Selection Voltage	0, 13V, 18V selectable
LNB Band Selection Tone	0/22KHz selectable

DVB-C Tuning and De-Multiplexing

Connector	4 to 24 IEC 169-24 female 75Ω for Input
Standard	Compliant with ITU J.83 Annex A,C, Annex B in option
Input Frequency	47~862MHz
Input Level	43~ 73dBuV for 64QAM, 47~ 77dBuV for 256QAM
Symbol Rate	1~7MBaud with step of 1kBauds
Constellation	16/32/64/128/256QAM
Bandwidth	8MHz in Annex A and C 6MHz in Annex B in option
De-multiplexer	MPEG2 ISO/IEC 13818-1

www.dh-tv.com

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TS/IP Input

Input Interface	2 x RJ45, Full Duplex, 1000M/100M/10M
TS/IP Input Bit Rate	1200Mbps Max. for one individual port in duplex mode (Input bit rate + output bit rate), (for example 900Mbps in, 300Mbps out) 2.4Gbps Max. totally when 2 ports are used 900Mbps Max. for any port any direction
Protocol	UDP, ICMP, IGMP V1, V2, V3, RTP, HTTP, RTSP, FTP, RTMP, HLS (Http Live Streaming)
IP addressing	Unicast, Multicast

Digital Video/Audio Decoding

Video Format	MPEG-2, MPEG-4, H.264, H.265
Audio Format	MPEG-1, MPEG-2, MPEG-4, AAC Dolby AC+ and multi-audio tracks pass through
Transcoding Source	Local Video files or IP streaming

TS Processing

Descrambler	DVB Common Scrambling Algorithm (CSA) or BISS-1, BISS-E
Service and PID	Service and PID drop and remux
PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation
Common Interface	Up to 12 PCMCIA slots, compatible with major CA CAMs in the market
Formats	SPTS / MPTS
Null Packet process	Null packet pass thru, auto insert or filtering
TS Editing	PSI/SI editing Service editing PID pass through / remapping PCR auto-correction

Digital Video/Audio Encoding and Trans-coding

Video Input Connector	4 to 24 HDMI and 4 to 24 SDI inputs
Video Format	H.264/AVC Baseline, Main&High Profile@ L5.1/L4.1 /L4.0 or Less &MPEG-2 MP@ ML H.265/HEVC Baseline, Main Profile @ L6.2 or less
Video Resolution	From 96 x 96 to 4096 x 2160
Video Bit Rate	From 200Kbps to 20Mbps
Video Aspect Ratio	4:3, 16:9
Video Frame Rate	29.97fps, 25fps, 24fps, 23.97fps
Audio Format	MPEG-1 Layer 2, MPEG-2/4, AAC-LC/HE-AAC Dolby AC+ and multi-audio tracks pass through
Audio Sampling Rate	32 KHz, 44.1 KHz, 48 KHz



IPTV/OTT Streamer and Delivery Station

DS-160



Audio Bit Rate	32kbps, 64kbps, 128kbps, 192kbps, 256kbps, 384kbps
Re-Multiplexing	
Formats	SPTS / MPTS
Null Packet process	Null packet pass thru, auto insert or filtering
TS Editing	PSI/SI editing Service editing PID pass through / remapping PCR auto-correction
Media Processing and Streaming	
Data Input and Output	4 GbE for input and output configurable
Protocol	UDP/RTSP/RTMP/HTTP/HLS/FTP
Video Format	H.264, MPEG, HEVC
Bit Rate	Up to 800Mbps per GbE
Number of Live TV Channels	500 channels in max
VOD Function	2000 hours of Movies @ 2Mbps in max
Number of Client	5000 users in max
Other Functions	Embedded TS demux to split MPTS to SPTS HLS/RTMP live TV and VOD channel streaming output DRM en-cryptor for TV content protection Operating with TMS-100 for turn key DRM solution Catch TV and PVR via external NAS
Control & Monitoring	
Connector Type	1 x RJ-45, 1000M/100M Base-T
Remote Control	SNMP, HTTP web interface, proprietary HDMS control
Local Control	LCD display and 4-key keypad
Equipment Upgrade	USB,WEB http and FTP
Physicals	
Power Supply	AC 110V~240V, 6A, 47~63Hz,
Power Consumption	Max.400W
Operation Temperature	5~45 °C
Storage Temperature	-10~65 °C
Operating Humidity	10 ~ 90%, non-condensed
Dimension	430mm*335mm*88mm
Weight	12Kg

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