

Quicklink Playout Server (HD) Technical Specifications

Solution Overview:

The Quicklink Playout Server is an integral part to both the Store & Forward and Live broadcast solutions.

The Server is available as Store & Forward only, Live only or as a complete solution incorporating both Live and Store & Forward.

The Store & Forward Server is offered complete with Broadcast Manager Software to manage the Playout of stored media files. The Live Server incorporates the latest Live Receiver Software which offers the ability to manage amazing quality live transmissions at remarkably low data rates.



Technical Specification:

Physical:

- 1U rack mount chassis
- CPU: 2 x Intel Xeon Quad Core Processors
- Memory: 2Gb DDRII ECC
- Rear I/O ports: 2 x RJ45 LAN , 2 x USB2.0, VGA, PS2 keyboard and mouse
- Raid Drives Mirrored 500 Gbyte SATA Hard Drives
- Optional Solid State Disk (FDM Flash Disk Module) in Live system
- 3 Pin IEC connector can operate on both 120/240 volt, 50/60 Hz mains power.

Audio and Video Inputs :

- 2 X Analogue RCA Audio IFB / Talkback connectors
- 2 X Analogue of professional balanced XLR analogue audio IFB / Talkback connectors
- Genlock Sync Input: Blackburst in SD or TriSync in HD.Support Video formats 525 NTSC, 625 PAL, switchable.

Audio and Video Outputs:

- SDI Video Output: 1 x 10 bit.SD/HD. 525 NTSC, 625 PAL, 720HD , 1080HD,BNC 75 Ohms
- Analog Video Output: YUV/NTSC/PAL /S – Video Switchable between SD and HD to component. 525 NTSC, 625 PAL BNC 75 Ohms
- AES Audio Output: 2 Channels AES/EBU digital audio & S/PDIF compatible RCA
- SDI Audio Output: 8 Channels.
- Analog Audio Output: 2 Channel of professional balanced XLR analogue audio

Transport:

- MPEG-2 Transport Stream over UDP or RTP
- Direct media over RTP
- Multicast and Unicast IP
- IPv4 supported
- Two-dimensional forward error (Pro MPEG)



Decoding:

Video

- On2 Technologies VP3, VP4, VP5, TrueMotion VP6, and TrueMotion VP7.
- MPEG-4 Part 2: Simple Profile Levels 0, 0b, 1, 2, 3 and Advanced Simple Profile Levels 1, 2, 3, 4, 5
- MPEG-4 Part 10 (AVC/H.264): Baseline, Main Profile & High Profile Levels 1, 1b, 2, 3
- Bit rate from 48 kBit/s up to 16 MBit/s
- Horizontal resolutions: 720, 704, 544, 528, 480, 352
- Resolution conversions: SD, ½ SD, CIF (352×288), QVGA (320×240), QCIF (176×144)

Audio

- MPEG-1 Audio Layer 3, (MP3), Stereo and mono, Sample rate: 8-48 kHz Bit rate from 32 kBit/s up to 320 kBit/s
- MPEG-4 Advanced Audio Coding (AAC) Stereo and mono, Sample rate: 8-48 kHz Bit rate from 16 kBit/s up to 384 kBit/s
- Choice of 2 Audio Codec either AMR audio from 6.60 kbit/s to 23.85 Kbits or AAC audio from 16 Kbits to 320 kbit/s

Formats Supported:

- HD Format Support 1080PsF23.98/24,1080i48, 1080i50, 108059.94,720p59.94,720p60 & 720p50
- SD Format Support 625/25 PAL, 525/29.97 NTSC, 525/23.98 NTSC
- SDI Compliance SMPTE 292M, SMPTE 259M, SMPTE 296M, SMPTE 372M, ITU-R BT.656 and ITU-R BT.601
- Video Sampling 4:2:2 and 4:4:4
- Colour Precision 4:2:2 and 4:4:4 10 bit
- Colour Space 4:2:2 YUV and 4:4:4 RGB
- Audio Sampling Television standard sample rate of 48 kHz and 24 bit

Environmental:

- Power Requirement: AC input Voltage: 100-240 VAC. Rated Input Current: 7A (115V) to 3A (230V).Rated Input Frequency: 50 -60 Hz
- Power Supply: Rated Output Power : 520W
- Operation Temperature: 10° to 35 °C (50° to 95°F)
- System Cooling: Two (2) 10cm blower fans
- 4 lines x 20 characters LCD display for user interface. Simple 6 button navigation.

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