

Qvidium Advanced Video Codecs

QVAVC-HD IP Video Codec

Specification

Video Interfaces

Input: 1x HDSDI / SDI / ASI (SMPTE 292M, SMPTE 259M, DVB-ASI), 1x HDMI, 1xComposite/1xS-Video (NTSC/PAL)
Output: 1x HDSDI / SDI / ASI (SMPTE 292M, SMPTE 259M, DVB-ASI), 1x HDMI, 1xComposite (NTSC/PAL)
Connectors: 4 Female BNC (2 SDI/DVB-ASI, 2 Composite), 4-pin Mini-Din (Y/C)

Audio Interfaces

Input: Stereo Analog unbalanced
Output: Stereo Analog unbalanced
Connector: 2 Stereo Mini-phono (3.5mm)

Video Encoding & Transcoding (HD & SD)

Video Encoding: MPEG4-AVC (H.264)
 ▶ High Profile, up to Level 4.1
 ▶ Baseline Profile
MPEG-2 Main Profile
Bitrate: Min to Max bitrates: 128 Kbps to 19 Mbps
Transcoding: H.264 to MPEG-2, MPEG-2 to H.264, MPEG-2 to MPEG-4 SP/ASP

Audio Encoding

Audio Encoding: MPEG-1 Layer2, MPEG-2 & MPEG-4 AAC
Sample rate: 32, 44.1, & 48 KHz
Bitrate: 16 Kbps (mono) to 384 Kbps (stereo)
Transcoding: MPEG1Layer2↔MPEG4AAC

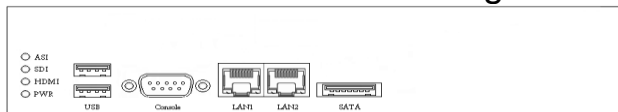
IP Encapsulation

IP Encapsulation: MPEG-2 Transport Stream or MP4 over RTP/UDP/IP or UDP/IP
IP Bitrate: 160 Kbps to 20 Mbps Encode w/o ARQ
Max 15Mbps Decode w/o ARQ
Max 15Mbps Enc / 5Mbps Dec w/ARQ
Error Correction QVidium® ARQ (feedback-based)
US Patents: 7551647, 7539187, 7522528

Video Resolutions

SD Video 625 lines, 25 frames/s (576i)
525 lines, 29,97 frames/s (480i)
HD Video 1080i30/25 and 720p60/50

Front & Rear Connection Diagrams



External Storage

Devices: USB Hard drives via USB connector
SATA Hard drives via eSATA connector

Network Interfaces

Type: 10/100 Base-TX Ethernet
Protocols: IEEE802.3 Ethernet
RTP, IPv4, TCP/UDP, IGMP v3
Connectors: 2 RJ45

Control and Management

Type: 10/100Base-T Ethernet
Features: Element control through HTTP/WEB.
SNMP traps for integration with Network Management System (NMS).

Protocol: HTTP, SNMP v2 traps
Connector: RJ45
USB Ports: 2
Maintenance Port: Two RS232 9 pin D-SUB

Physical and Power

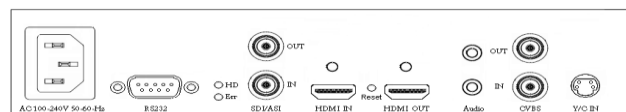
Input Voltage: 100-240VAC, 50-60Hz
Input Power: 12W
Chassis 1RU, 1/2-width, 209 x 182 x 44 mm
Dimensions: (WxDxH). Two units in 19" 1RU rack space
Installation: 19" rack mounting kit

Environmental Conditions

Operating Temperature: 0°C - +50°C
Storage Temperature: -20°C - +70°C
Relative Humidity: 5% to 95%(non condensing)

Compliance

CE: 73/23/EEC (Low voltage equipment)89/336/EEC (Electromagnetic compatibility)
Safety: IEC60950 and EN60950
EMC: EN55022, EN55024, EN6100-3-2



Ordering Information

Model #QVAVC-HD (or **Model #QVAVC-HD-Lite** without HD Encode), add **QVAVC-TC** for Transcoding Option

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