

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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QVidium® Professional Video Codecs

QVPRO H.264 IP Video Codec

Specification

Video/Audio Interfaces

Input:	1x 3GSDI / HDSDI / SDI / ASI (SMPTE 425M (A&B), 424M, 292M, 259M, ASI), 1x HDMI (1080i & 720p only)
Output:	1x 3GSDI / HDSDI / SDI / ASI (SMPTE 425M(A&B), 424M, 292M, 259M, ASI), 1x HDMI (1080i/p,720p,480i & 576i)
Connectors:	2 Female BNC (SDI/DVB-ASI), 2 HDMI

Video Encoding & Transcoding (HD & SD)

Video Encoding:	MPEG4-AVC (H.264) ►High Profile, up to Level 4.1 ►High, Main, and Baseline Profiles MPEG-2 Main Profile Constant bit rate or Variable bit rate
Bit rate:	128 Kbps to 30 Mbps
Transcoding:	H.264 ↔ MPEG-2, H.264 ↔ H.264 Constant bit rate or Variable bit rate
Closed Captioning:	EIA-608 (SD Encoding-only)
Full-Duplex Operation:	Bidirectional, simultaneous HD or SD encoding and decoding

Audio Encoding / Decoding / Transcoding

Audio Encoding:	MPEG-1 Layer2, MPEG-2 & MPEG-4 AAC
Sample rate:	32, 44.1, & 48 KHz
Bit rate:	16 Kbps (mono) to 384 Kbps (stereo)
Audio Channels:	Up to 4 mono-audio channels (2 stereo pairs)*, MPEG1Layer2↔MPEG4AAC
Transcoding:	AC3 Pass-through

IP Encapsulation

IP Encapsulation:	MPEG-2 Transport Stream over RTP/UDP/IP or UDP/IP
IP Bitrate:	160 Kbps to 30 Mbps , 15Mbps w/ARQ
Error Correction	QVidium® ARQ (feedback-based) US Patents:7551647 & 7522528 ProMPEG FEC COP 3.2 (SMPTE 2022)

Video Resolutions

SD Video	625 lines, 25 frames/s (576i) 525 lines, 29,97 frames/s (480i)
HD Video	1080p60/50/30/25/24, 1080i60/50 and 720p60/50

Storage & Network Interfaces

Networking ports:	10/100/1000 Base-TX Gigabit Ethernet
Protocols:	IEEE802.3 Ethernet RTP, IPv4, TCP/UDP, IGMP v3
Connectors:	2 RJ45
External storage:	Flash & Hard drives via 2 USB connectors

Control and Management

Type:	10/100/1000 Base-T Gigabit 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 Voltages:	120-240VAC, 50-60Hz or 7-20 VDC
Input Currents:	150-75 mA for AC or 3.0-1.0 A for DC
Input Power:	18W
DC Connector:	2.5mm I.D. x 5.5mm O.D. x 9.5mm Female
Chassis:	209 x 182 x 44 mm (WxDxH) Two units in 19" 1RU rack space
Installation:	19" 1 RU rack mounting kit

Environmental Conditions

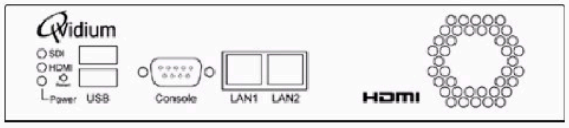
Operating Temperature:	0°C - +55°C
Storage Temperature:	-20°C - +70°C
Relative Humidity:	5% to 95%(non condensing)

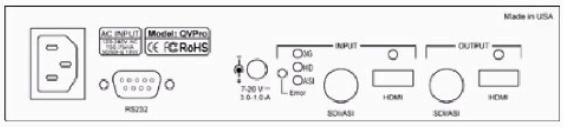
Compliance

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

*** Currently, 1 stereo-pair, second audio pair available soon**

Front & Rear Connection Diagrams





Ordering Information

Model #: QVPRO (options: **QVPRO-1080p** for 1080p, **QVPRO-1080i** for 1080i/720p, **QVPRO-BiDir** for Codec)

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