digigram

AQORD *LINK

Encode, store, transcode and stream broadcast-quality video

Hardware
- Encode
- Decode
- Transcode
- Store

MPEG-TS Stream
- H.264/AVC
- MPEG1 L2
- AAC-LC

Functions
- Broadcast-quality video
- Hardware encode, decode or transcode up to 2 HD-SDI channels
- Stream and encode file at the same time
- Stream to different IP addresses

Specs at a glance
- SDI & IP video I/Os
- AES/EBU audio I/Os
- SD/HD support
- H.264 video codec
- Up to 2 HD channels in one box
- MPEG2 to H.264 transcoding
- Low Latency
- HD to SD downscaling
- Pro MPEG FEC

Improve Workflow

AQORD *LINK is the professionals' choice for high quality Broadcast applications like: Content Contribution (Point-to-Point), typically Live Event to Studio, Studio to Studio, Studio to Transmitter or delivery to a Content Distribution Network (CDN), IPTV distribution, typically Hopitality and ISP video distribution to end user Set Top Box.

Designed for SD/HD live streaming the AQORD *LINK Hardware Encoder/Decoder/Transcoder can simultaneously encode or decode or transcode two video channels (IP stream, file, SDI).

Flexibility

One box, several functions: Encoder, Decoder, Transcoder broadcast-quality video at data rates from 0.5 to 20Mb/s from/to IP stream or internal Hard Drive to/from SDI connexion. Stream and record video content using MPEG-TS encapsulation. 2 Gigabit Ethernet RTP-UDP/IP ports transmit/receive streams in either Unicast or Multicast enabling flexibility for the Broadcaster, Telco's and Contribution Operators alike.

Intuitive System Interface/Appliance Management

Complete system management is easily undertaken through either the local HMI front panel or remotely from any web enabled PC or XML API. Start/Stop or manage up to 100 Profiles remotely through the web interface or monitor hardware status such as chassis cooling temperatures, fan speeds and alarms.
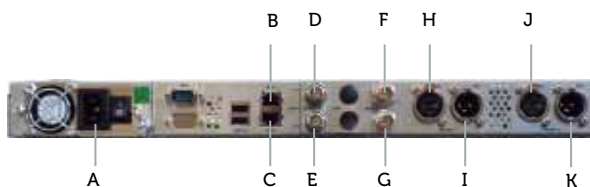
Compact Footprint

The 1U/19'' rack mounting unit provides up to two Encoding/Decoding/Transcoding channels in a compact footprint with 750 GB of internal HDD storage capacity. The AQORD *LINK 99.99% operational reliability design concept ensures highly dependable performance. Low power consumption technology ensures a high level of security and reliability.

Technical features

AQORD		*LINK 1C	*LINK 2C	*LINK SC
CHANNEL NUMBER	Up to 2 channels	1	2	2
CHANNEL FUNCTIONS	Encoding or Decoding or Transcoding (MPEG2 to H.264)	✔	✔	✔
VIDEO I/Os	SD/HD-SDI (SMPTE 292, 259M)	✔	✔	✔
	MPEG2 Transport Stream over UDP-RTP/IP & HDD	✔	✔	✔
VIDEO RESOLUTIONS (SD)	720x480 59.94i, 720x576 50i	✔	✔	✔
(HD)	1920x1080 59.94i, 1920x1080 50i, 1440x1080 59.94i, 1440x1080 50i, 1280x720 59.94p	Op.	Op.	✔
VIDEO SPECIFICATIONS	H.264/AVC Main Profile Level 3.0, High Profile Level 4.0	✔	✔	✔
	VBR, CBR, 4.2.0 8-bit	✔	✔	✔
	Video encoding rate: 0.5 to 20 Mbps	✔	✔	✔
AUDIO SPECIFICATIONS	Encoding and Decoding formats: - MPEG1 Layer 2 2-ch			
AUDIO I/Os	AES/EBU inputs & outputs	✔	✔	✔
IP INPUT/OUTPUT	2 Gb RJ45, RTP-UDP/IP, Unicast/Multicast	✔	✔	✔
	Stream up to 10 different IP addresses	✔	✔	✔
STORAGE CAPACITY	750 GB SATA HDD	✔	✔	✔
APPLIANCE MANAGEMENT	Remote: Web based management, XML API, NTP	✔	✔	✔
	Local MMI/LCD-Keypad	✔	✔	✔
	Security: Fan control, Temperature control	✔	✔	✔
OTHERS FEATURES	Pro-MPEG CoP#3 Forward Error Correction	Op.	Op.	Op.
	Web encoding formats: HTTP Live Streaming, Adobe Flash, etc.	Op.	Op.	Op.
	Downscaling HD to SD			✔
DIMENSIONS/WEIGHT	19", 1RU, 43.9 cm depth; Weight 7.9 kg	✔	✔	✔
POWER SUPPLY	Input Voltage Range: 90-264VAC			
	Consumption (Max at 20°C Ta) 90W, 2 ch.	✔	✔	✔
ENVIRONMENTAL SPEC.	Temperature: Operating 0°C TO 50°C, Storage -20°C TO 70°C,	✔	✔	✔
COMPLIANCE	EMC: EN55022, EN55024 - Safety: EN 60950	✔	✔	✔

Op. : Optional

A - Power inlet
B - Gigabit Ethernet Port (ETH0)
C - Gigabit Ethernet Port (ETH1)
D - SDI IN channel 1
E - SDI IN channel 2
F - SDI OUT/Monitoring channel 1
G - SDI OUT/Monitoring channel 2
H - Audio IN channel 1
I - Audio OUT channel 1
J - Audio IN channel 2
K - Audio OUT channel 2

Options

HD
Support of additional HD video formats (included with AQORD *LINK SC)

FEC
Support of Pro Mpeg FEC CoP3 standard

SW-ENC
Add software encoding capability for AQORD *LINK products (includes H.264 video codec, AAC audio codec and MPEG-TS encapsulation). Additional codec options include:

- MPEG2 video codec
- RTMP Streaming and dynamic streaming for Adobe Flash®
- Apple® HTTP Live Streaming and adaptive streaming for Apple Mobile Devices

About Digigram

Positioned at the convergence of professional audio and video with IT, Digigram offers IP-based solutions that enable users worldwide to increase their competitiveness through change. The company's products enable the reliable capture, production and delivery of high-quality audio and video over IP networks. Its innovative IP audio codecs, professional sound cards, and audio processing software are used by thousands of journalists, broadcasters, and audio engineers worldwide. Digigram's all-IP video product line provides advanced contribution and distribution solutions to broadcast, IPTV, Web TV, and OTT operators. The company also delivers key audio/video technologies and OEM solutions to software vendors and manufacturers.

For more than 25 years, through constant innovation and the development of fruitful partnerships, Digigram has been influential in energizing the industry, raising standards, and pushing forward technological development.

Further information on Digigram and its product portfolio is available at www.digigram.com.

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