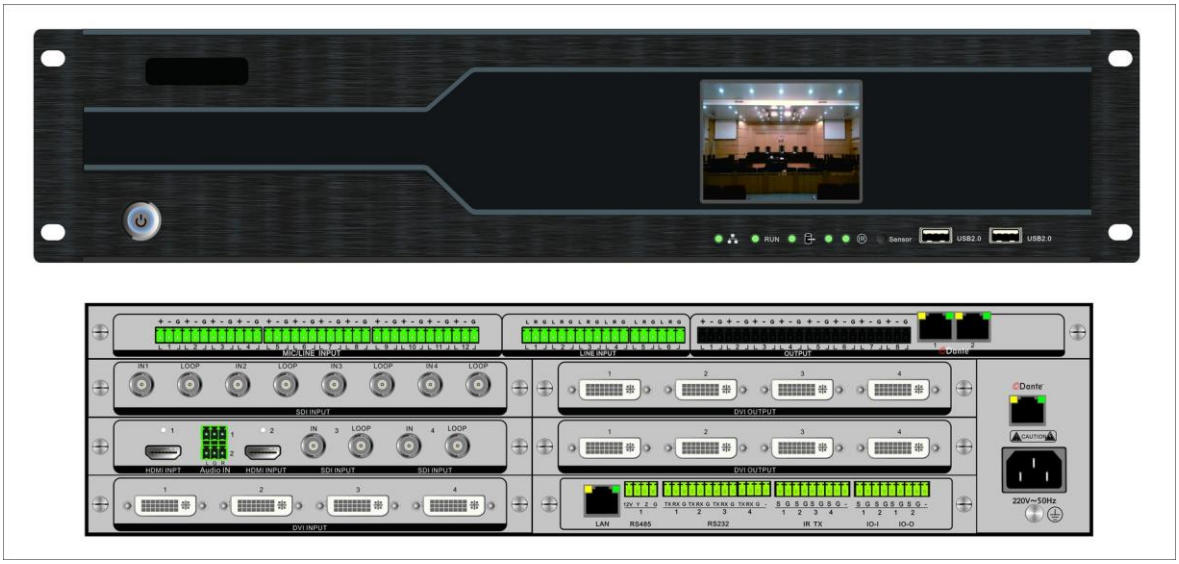
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QG-IX2 Datasheet

Integrated AV Host (2U)



Overview

QG-IX2 is a 2U integrated presentation system with the enclosure divided into signal, card and power sections. It uses hot-swap channel cards in three input and two output slots, four channels per card, 12 in by 8 out fully populated. The unit provides twelve microphone inputs, six line inputs and four channels of decoded audio return, with eight balanced outputs, six embedded outputs and two Dante channels. A 4.3 in front touch panel covers layout control and basic configuration with the network down.

Key Features and Benefits

12 x in, 8 x out, card-based

Three input and two output slots, four channels per card. Digital, analog, fiber and long-distance cards share one chassis, identified by the backplane automatically.

Hot swap without downtime

Expansion or card replacement keeps the unit running and recording. Three separated bays for signals, cards and power.

12 microphones in parallel

Each channel has its own processing chain, feedback suppression configured per channel. Voice-activated switching within 200ms.

Dual-stream encoding and expansion

10 encoders with dual streams each, 4 decoders. Reserved slots take an extra 4-encoder 2-decoder card without changing the unit.

Operation without network

4.3-inch front touchscreen handles routing and basic setup with the network down. Management and media networks are physically separate.

Optional dual power

250W single PSU standard, dual hot-swap PSUs optional, a single power loss does not stop the unit.

Specifications

Enclosure and construction	
·	2U chassis, 550 mm depth, for standard 19 in racks
·	Signal, card and power sections separated inside the enclosure
·	Per-channel card routing keeping high-speed signals and power on separate paths
·	Plug-in channel cards, hot-swappable
·	Expansion or card replacement with the unit powered and recording uninterrupted
·	Encoding, decoding and switching on dedicated logic rather than an OS scheduler
·	Embedded real-time kernel, no desktop environment or background processes
·	Front panel 4.3 in touch panel
·	Layout control and basic configuration with the network down
·	250 W single supply standard, dual hot-swap supplies optional
·	No interruption to operation on loss of one feed
Signal paths and capacity	
·	Three input and two output slots, four channels per card, 12 in by 8 out fully populated
·	Digital, analog, fiber and long-reach cards mixed in one enclosure
·	Backplane identifies card type per slot, with no software slot assignment
·	Twelve microphone inputs with independent phantom power and stored gain
·	Six line inputs, four channels of decoded audio return
·	Eight balanced outputs, six embedded, two Dante
·	Dante interface connecting directly to networked amplifiers and microphones
·	Four serial ports, four IR outputs with one learning input, four relays, two USB
·	2 TB internal storage, single drive replaceable to 8 TB
·	Management and media networks on separate physical networks
·	Reserved codec slots accepting four additional encoding and two decoding channels
·	Capacity grows without replacing the unit
Audio processing	
·	Acoustic echo cancellation using the same modelling approach as the 1U model
·	Twelve microphone channels processed in parallel with independent compute per chain
·	Feedback suppression configured per channel, notching independent of adjacent channels
·	Steady noise suppression as a separate stage acting on the noise band only
·	Microphone opening triggers the picture cut at signal level, latency ≤ 200 ms
·	Return audio mixed into local reinforcement, sharing one gain structure with local microphones
·	Voice alteration applied to recordings and live streams
Imaging and layout	
·	Two independent layout engines with separate output resolutions for local and remote
·	More than twenty layout templates including split, picture-in-picture and picture-outside-picture
·	Custom region composition, output up to 4K
·	Subtitle, logo and time watermark as three independent layers
·	Mosaic masking, up to eight draggable and resizable areas per picture
·	Mask areas saved and recalled with scenes
·	Ten or more transitions with duration adjustable from 0.3 to 1.5 s
·	No black frame and no flicker at the switch
Encoding and streaming	
·	Ten encoding channels with independently encoded high and low bitrate streams
·	Four decoding channels with a reserve of four encoding and two decoding
·	H.265 or H.264 video, AAC and G.711 audio
·	Standard MP4 recordings, interchangeable with the 1U and 4U models
·	Resolution, frame rate and bitrate set per channel
·	Supports RTSP, RTMP, RTP, ONVIF, H.323 and SIP
·	Encoding channels on the expansion slot publish their own stream addresses
·	Push to third-party platforms on a separate encoding channel
·	Streaming does not reduce local recording capacity
Control, conferencing and recording	
·	Web, client software and the 4.3 in local panel
·	One account and permission model across all three

·	Scene recall bundling layout, audio, controlled devices and recording jobs
·	Control pages edited in a browser with visual configuration
·	Pages export as templates and are reused across units of the same model
·	Four-party conferencing with point-to-point SIP and H.323 calling
·	Concurrent recording jobs with configurable segment length
·	Recordings searchable, downloadable and deletable, with scheduled FTP archiving
·	Local playback from the on-board output without occupying an encoding channel
·	Remote status, log and firmware operations
Reliability and factory test	
·	Encoding, decoding, storage, transcoding and control completed in one unit
·	72 hour powered burn-in before shipping with automatic re-test of any anomaly
·	Hot-swap channel cards allowing board replacement without stopping the unit
·	Recording index synced at fixed intervals and rebuilt after power loss
·	Recorded files remain readable by segment
·	Management and media networks physically separate

Ordering Information

Model	Description
QG-IX2	Integrated AV host, 12 x in, 8 x out, card-based

Company Information

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