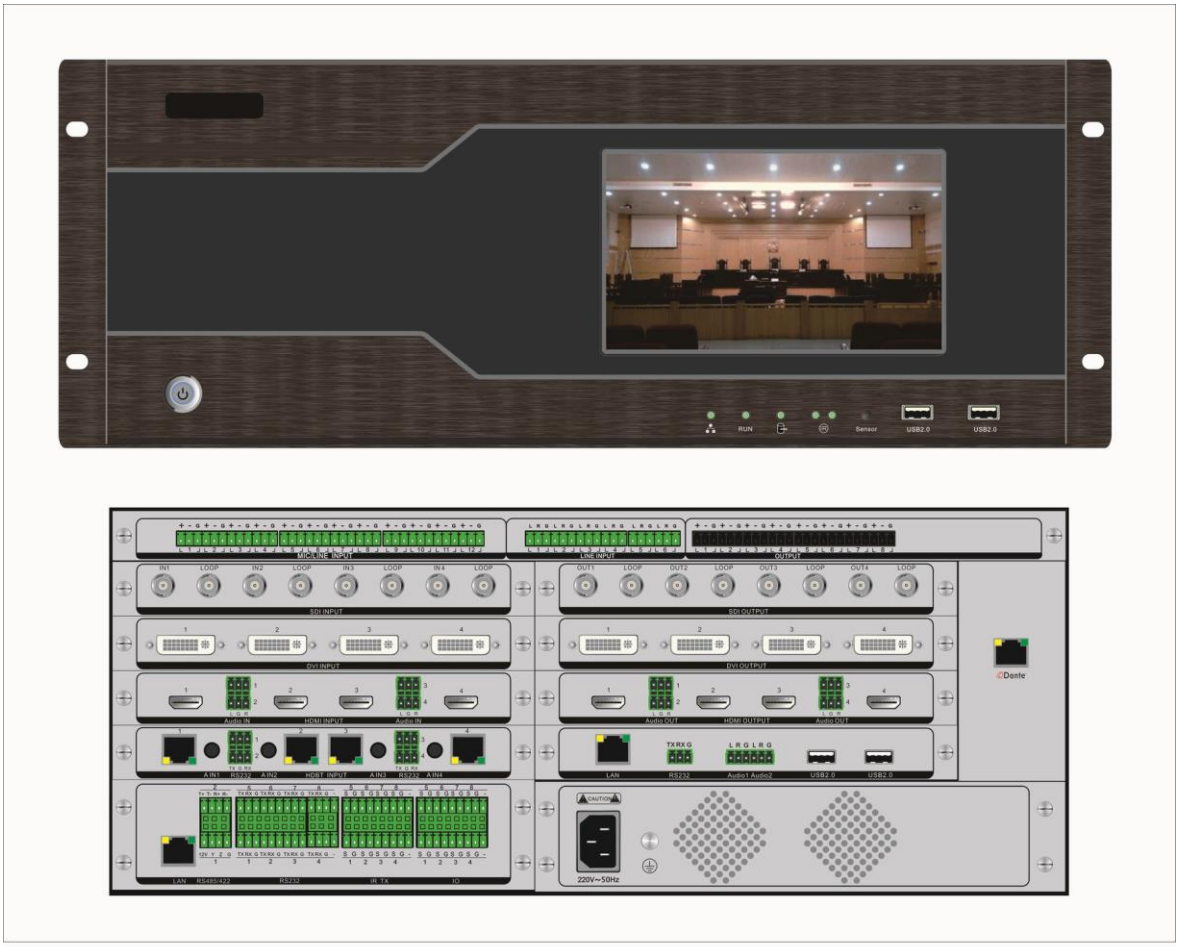
QG-IX4 Datasheet

Integrated AV Host (4U)



Overview

QG-IX4 is a 4U integrated presentation system with three isolated sections and a dedicated airflow path for the power section. It provides redundant supplies and hot-swap channel cards in four input and four output slots, four channels per card, 16 in by 16 out fully populated. The unit carries twenty-four microphone inputs, eight line inputs and eight channels of decoded audio return, with sixteen balanced outputs, eight embedded outputs, four Dante channels and dual drive bays up to 16 TB. The control board is separate from the media boards and replaceable on its own; a 7 in front panel is provided.

Key Features and Benefits

16 x in, 16 x out, card-based

Four input and four output slots, four channels per card. Codec expansion slots are separate and do not occupy I/O slots.

Separated control and media boards

The main control board can be replaced alone without touching channel configuration or recording tasks.

24 microphones in parallel

Microphone count scales with DSP cards, each channel has its own processing chain. Zone paging with independent gain, EQ and grouping per zone.

Dual-disk storage

4TB built in, up to 16TB, mirror and expansion configurations supported.

4 layout engines

Driving four terminals at the same time, each with its own resolution up to 4K.

Dual PSU standard

320W full load with dual 400W redundant PSUs, maintenance never stops the unit.

Specifications

Enclosure and construction	
·	4U chassis, 550 mm depth, for standard 19 in racks
·	Three isolated sections, dedicated airflow for the power section
·	Dual redundant hot-swap supplies, standard
·	No interruption to operation on loss of one feed
·	Control board separate from media boards and replaceable on its own
·	Channel configuration and recording jobs on the media boards unaffected
·	Hot-swap channel cards, expansion and replacement without stopping the unit
·	Encoding, decoding and switching on dedicated logic
·	Front panel 7 in touch panel
·	Channel switching, layout changes and recording control with the network down
·	320 W full load on dual 400 W redundant supplies
Signal paths and capacity	
·	Four input and four output slots, four channels per card, 16 in by 16 out fully populated
·	Digital, analog, fiber and long-reach cards mixed in one enclosure
·	Codec expansion slots independent of channel card slots
·	Expansion without consuming input or output positions
·	Twenty-four microphone inputs with independent phantom power and stored gain
·	Microphone count set by the number of DSP boards in the enclosure
·	Eight line inputs, eight channels of decoded audio return
·	Sixteen balanced outputs, eight embedded, four Dante
·	Dante and analog balanced outputs operating simultaneously
·	Eight serial ports, eight IR outputs with one learning input, eight relays, four USB
·	4 TB internal with two drive bays, up to 16 TB
·	Two bays configurable for mirroring or capacity expansion
Audio processing	
·	Twenty-four microphone channels in parallel, each on an independent chain
·	Processing depth unaffected by channel count
·	Echo cancellation modelled on room acoustics with filter order set to the longest reverberation
·	Feedback suppression per channel, notching at the howl frequency only
·	Noise suppression as a separate stage, independently disableable
·	Microphone opening triggers the picture cut, latency ≤ 200 ms
·	Voice alteration applied to recordings and live streams
·	Zoned reinforcement with independent gain, equalisation and microphone grouping
Imaging and layout	
·	Four independent layout engines driving four endpoints at once
·	Independent resolution per engine, output up to 4K
·	More than twenty layout templates with custom region composition
·	Subtitle, logo and time watermark as three independent layers
·	Channel name and recording status available as further overlays
·	Mosaic masking with draggable, resizable areas written into the recording
·	Ten or more transitions, no black frame and no flicker
Encoding and streaming	
·	Sixteen encoding channels with independently encoded high and low streams
·	Eight decoding channels

·	H.265 and H.264 video, AAC and G.711 audio, standard MP4 container
·	Resolution, frame rate and bitrate set per channel
·	Supports RTSP, RTMP, RTP, ONVIF, H.323 and SIP
·	Camera streams to display without an intermediate transcode
·	Push to third-party platforms with a generated viewing QR code
·	Concurrent streaming to several platforms with bitrate set per stream
Control, conferencing and recording	
·	Web, client software and the 7 in local panel
·	One account and permission model across all three
·	Scenes bundling layout, audio, controlled devices and recording jobs
·	Control pages edited in a browser
·	Multi-party conferencing with direct SIP and H.323 calling, no external MCU
·	Concurrent recording jobs segmented by time
·	Recordings searchable, downloadable and deletable, with FTP archiving and local playback
·	Status, logs and firmware completed remotely
Reliability and factory test	
·	Encoding, decoding, storage, transcoding and control completed in one unit
·	72 hour powered burn-in with full logging
·	Redundant supplies, hot-swap cards and a separately replaceable control board
·	Board replacement without stopping the unit
·	Recording index repairable, no recording lost as a whole block
·	Management and media networks physically separate

Ordering Information

Model	Description
QG-IX4	Integrated AV host, 16 x in, 16 x out, card-based

Company Information

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