QG-1168H Datasheet

Conferencing Integrated Host



Overview

The unit is a 1U integration host for meeting rooms and personal desks. Video switching, the conference terminal, multi-party conferencing and programmable control run in one chassis. Cameras and displays connect over HDMI, and an office PC links over USB with a single cable carrying audio, video and keyboard control.

Key Features and Benefits

4K60 on every path

2 x HDMI in and 2 x HDMI out, all 4K60Hz. H.239 and BFCP dual stream at 4K P60.

Built-in 6-party conferencing

H.323/SIP, GK and SIP registration, calling by alias, conference ID or IP address, compatible with mainstream meeting servers.

USB 3.0 straight to meeting apps

One USB 3.0 port sends audio and video to PC conferencing software, plug and play.

8 encoders, 4 decoders

H.265/H.264 video, AAC/G.711 audio, adjustable resolution, bitrate and sample rate.

Control capability

RS-232/RS-485 serial, 3 relays, 4 I/O/IR. Programmable buttons with importable control pages.

High reliability

MTBF at least 100000 hours. Optional fiber port switches over automatically when the network port fails.

Specifications

Enclosure and construction	
·	1U chassis, 19 in rack mount
·	Front display showing the IP address
·	Power, network, signal and run status indicators
·	Reset pinhole for factory defaults

Connections and capacity	
·	Two HDMI inputs at 4K60
·	Two HDMI outputs at 4K60
·	One USB 3.0 port carrying audio and video to PC conferencing software
·	Four USB ports: two USB 3.0 for camera and microphone, two USB 2.0 for keyboard and mouse
·	One 3.5 mm microphone input
·	One stereo line input and one stereo line output
·	One RS-232 and RS-485 port
·	Three relay outputs and four I/O or IR ports
·	One IR receiver input
·	One RJ45 port, 10/100/1000M auto-negotiating
·	Optional optical port with automatic failover from the copper port
Conferencing	
·	Conference terminal module on H.323 and SIP
·	Gatekeeper and SIP registration, calling by alias, conference number or IP address
·	Interoperable with mainstream conference management servers
·	H.239 and BFCP dual stream at 4K60
·	Subtitle and station logo overlay
·	Motion detection triggering an automatic cut
Video processing	
·	Three independent composition engines
·	Ten or more layout modes covering 2, 4, 6 and 8-way split
·	Six or more transitions
·	Composition output up to 4K, configurable
·	Built-in six-party conference with address book and group calling
Encoding and decoding	
·	H.265 and H.264 video, AAC and G.711 audio
·	Resolution, bitrate and sample rate configurable
·	Eight channels of audio and video encoding
·	Four channels of audio and video decoding
Control	
·	Camera PTZ with eight presets, pan, tilt and home
·	Camera focus, zoom in and zoom out
·	IR learning, serial and network data transport
·	GUI to a local display, IR remote for switching, calling, recording and review
·	Control buttons programmable and importable as a control page
·	Management through browser, client software and local GUI
·	Scene storage and click-to-switch preview
·	Clients for multiple platforms
·	TCP, UDP, RTSP, RTP, RTMP, ONVIF, H.323, SIP and HTTP
·	MTBF of 100000 hours or more

Interfaces

Port	Qty	Connector	Typical use
HDMI inputs	2	HDMI Type-A	Camera and PC, on board
HDMI outputs	2	HDMI Type-A	Local screen and monitor
Microphone input	1	3.5 mm or USB	Boundary or conference microphone
Line output	1	3.5 mm stereo	Active speakers
USB	3	USB 3.0	Camera, keyboard, USB drive
Control	1 / 1 / 2	RS-232 / RS-485 / IO	Display and peripheral control
Network	2	RJ45	Management and media ports
Power	1	AC 100 to 240 V	Internal supply, direct to rack PDU

In the Box

Host unit: 1, aged and self-tested before packing

Power cord: 1 standard cord; adapter models ship with one external adapter

Rack hardware: One pair of ears; portable models ship with the handle fitted

Quick start: 1, wiring and first power-on steps

Certificate: 1, printed with the serial number

Storage drive: 1, already fitted, capacity in the specifications

Installation Environment

Operating temperature: 0 C to 40 C

Operating humidity: 10% to 90%, non-condensing

Storage temperature: -20 C to 60 C

Altitude: up to 3000 m

Clearance: 100 mm at intake and exhaust, unobstructed in the rack

Grounding: Rack ground resistance 4 ohm or less, conductor 1.5 mm2 or larger

Ordering Information

Model	Description
QG-1168H	Conferencing integrated host, 2 x in, 2 x out 4K60

Company Information

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