



Q-SYS QIO-FLEX4A

KEY FEATURES

- Native audio and control I/O expander for Q-SYS
- Four (4) software-configurable Flex audio I/O channels, 4x8 GPIO, one (1) RS232 serial port, two (2) amplifier outputs
- Power-over-Ethernet capable
- Daisy-chain up to four QIO network I/O expanders on a single network run (with local daisy-chained DC power)
- Simple drag-and-drop integration and comprehensive management via Q-SYS Designer Software and Q-SYS Reflect
- Surface- or rack-mountable (includes surface mounting hardware)
- QIO-RMK rack mounting kit sold separately
- QIO-PSU DC power supply sold separately



Q-SYS QIO-FLEX4A

Network audio & control I/O expander for Q-SYS

The QIO-FLEX4A provides your Q-SYS system with greater flexibility to deploy audio and control connectivity across presentation and collaborative discussion spaces, such as meeting rooms and legislative judicial chambers. By separating local I/O from processing hardware, the QIO Series network I/O expanders offer modular and easily scalable network I/O to support your desired topology.

BENEFITS

The Right I/O Where You Need It: The Q-SYS QIO-FLEX4A expands your Q-SYS systems' capabilities to enable streamlined interoperability with non-networked audio & control devices in a consolidated form factor. Each of the QIO Series I/O expanders also features a compact form factor that can be rack- or surface-mounted.

QIO-FLEX4A: Four (4) software-configurable Flex audio I/O channels, 4x8 GPIO and one (1) RS232 serial port for integration with third-party control peripherals, and two (2) amplifier outputs for compact loudspeakers.

Expanded I/O customization: QIO Series is intended to present a simpler way to add network I/O connectivity to Q-SYS systems, decoupling the physical location of the I/O from processing hardware to support distributed or centralized processing architectures. Additionally, QIO Series lets you customize your I/O configuration, and complements the strengths of newer Q-SYS Core models that were designed with fewer onboard I/O options (Core Nano, Core 8 Flex, or NV-32-H (Core Capable)).

Simplicity & scalability: Daisy-chain up to four of the QIO Series devices on a single network run (with local daisy-chained DC power) to consume fewer network ports, avoid rack clutter, and allow for quicker future expansion without pulling additional network cables. Alternatively, QIO Series are also PoE-capable, providing simple single cable connectivity (when devices aren't daisy-chained).

Designed for Q-SYS: QIO Series network I/O are native to Q-SYS, a cloud-manageable audio, video, and control platform, built to deliver scalable, flexible AV solutions well into the future.

Q-SYS FLEX4A

Connectivity	Four (4) Flex I/O, 4x8 GPIO, one (1) RS232, two (2) amplifier outputs
Mic/Line Inputs	
Maximum input level	600 Ω , nominal
Preamplifier gain range	300 Hz to 3.3 kHz, ± 1.0 dB
Phantom power	< 0.5%
Equivalent input noise	> 62 dB
Input to input crosstalk @ 1 kHz	0.1
Input impedance	10 k Ω (balanced), 5 k Ω (unbalanced)
Input dynamic range	@ +24 dBu sensitivity, > 108 dB @ +10 dBu sensitivity, > 105 dB @ -10 dBu sensitivity, > 100 dB @ -36 dBu sensitivity, > 80 dB
Mic/Line Outputs	
Max output level range	-37 dBu to +24 dBu
Output dynamic range	108 dB
Output to output crosstalk @ 1 kHz	> 102 dB typical, > 90 dB typical minimum
Output impedance	200 Ω (balanced), 100 Ω (unbalanced)
Sample rate	48 kHz
Bit depth	24 bit
Amplifier Outputs	
Max loudspeaker output power (Aux 24 VDC Power)	9 W @ 4 Ω , per channel
Max loudspeaker output power (PoE+)	5 W @ 4 Ω , per channel
Output impedance	4-8 Ω nominal
Control	
RS232	1 port
GPIO	4x8
Other Connectors	
External power supply	24 VDC nominal, 3.7 A on Euro connector with second connector for daisy-chaining (QIO-PSU power supply sold separately)
LAN (PoE)	Gigabit LAN connection for Q-LAN, PoE
PoE specification	Conforms to IEEE 802.3af Type 2, Class 4 Accepts IEEE 802.3af Type 1, Class 3 (amplifier disabled at this power level)
LAN (Thru)	Ethernet daisy-chaining

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General

Dimensions	5.5 x 8.62 x 1.59 in (139.7 x 219.1 x 40.4 mm)
Weight	2.3 lbs. (1.04 kg)
Mounting options	Surface- and wall-mountable (hardware included) Rack-mountable; 1RU, half-rack width (QIO-RMK rack kit sold separately)

Environmental

Power consumption	Aux 24 VDC Power (@ 9 W per amp channel max), 43.5 W PoE+ (@ 5 W per amp channel max), 25.5 W PoE (Amplifier Disabled), 12.95 W
Ambient operating temperature range	0° C to + 50° C
Humidity	5% to 85% RH through 30° C, non-condensing
Storage temperature	-20° C to + 70° C
Heat load	45 BTU/hr
Compliance	FCC Part 15B, ICES-003:2020, TUV, CAN/CSA 22.2, IEC62368-1, IEC60065, RoHS2, WEEE, CE, EN55032, EN55035, RCM: AS/NZS CISPR 32, NOM, GB8898, GB13837, GB17625.1, SJ/T 1164 (RoHS), SANS 941, BIS, KC 9032, KC 9035, SASO, RoHS3

