QSC®

# Product Reference Guide for System Installations

QSC is a globally recognized manufacturer of audio, video and control systems for huddle rooms to large outdoor venues—and everything in between. While we're known for solid amplifiers and loudspeakers, we have a rich legacy in networked audio and digital signal processing. This history, combined with strong IT expertise, allows our team to develop flexible, software-based system solutions. Our systems enable your team to design and integrate projects that deliver the native IT integration and standards-based technology today's IT decision makers expect.

The following pages represent our latest systems products and technologies. Designed to give you a brief overview, this guide should be considered a supplement to the products and solutions pages online at qsc.com. You will find a fully updated, comprehensive set of information, documentation, tools and images that work in tandem with this guide.

Additionally, training.qsc.com is another great resource to learn more about QSC products and solutions.

Enjoy the guide.

## Q-SYS™ Ecosystem



## Amplifiers



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## Mixers

# Q-SYS™ ECOSYSTEM

# Q-SYS™

Realtime Operating System and Processors for Audio, Video & Control

The Q-SYS™ Ecosystem provides the systems integrator and end user with a unified software design tool suite and feature set suitable for projects of any scale. With the bandwidth to handle even the most complex configurations, Q-SYS is ready for any job, from boardrooms and hotels to airports and stadiums. Built from the ground up to leverage mainstream IT hardware and networking technology, the Q-SYS Ecosystem runs all audio, video and control processing in a purpose-built Linux kernel with real-time extensions on Intel processing. This Intel™ hardware meets industry-best reliability standards and is used in many of the world's most mission-critical projects on a powerful, open, IT-friendly foundation, the Q-SYS Ecosystem transcends the limitations in scope, performance, and usability that keep other network audio, video and control systems from reaching their full potential.

| | Local Inputs | Local Outputs | Local Flex Channels | AEC Processors | Built-In Networked Audio I/O | VoIP Instances | USB Audio I/O Instances | Web Conference Integration (USB) | POTS | GPIO |
|---|---|---|---|---|---|---|---|---|---|---|
| Q-SYS Core 110f | 8 | 8 | 8 | 16 | 128 x 128 | 4 | 4 | 1 | 1 | 16 |
| Q-SYS Core 510i | 128 | 128 | N/A | 64 | 256 x 256 | 64 | † | † | N/A | 16 |
| Q-SYS Core 5200 | N/A | N/A | N/A | 160 | 512 x 512 | 64 | † | † | N/A | 16 |

*† Available is combined with additional Q-SYS peripheral like the I/O-USB Bridge*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS



Core 110f

## Unified Core

With an abundance of acoustic echo cancellation (AEC), raw processing power and networked audio channel count, the Q-SYS Core 110f processor offers the best cost-to-performance ratio of any in-room processing solution available. This smaller Core processor is ideal for: acoustic echo canceling and sound reinforcement in small to large meeting or multipurpose rooms, sound reinforcement in performance venues such as houses of worship and theaters, background music systems, wide area paging in airports, convention centers and hospitals.

- **Class Leading I/O:** Core 110f has 24 I/O + USB, POTS and VoIP simultaneously offering the best cost-to-I/O ratio in a single SKU, single chassis product available on the market.
- 8 Flex Channels: Nearly all the flexibility of a card-based DSP solution without the hassle of multiple SKU's and custom ordering.
- Web Conferencing Software Integration: Core 110f provides on-board USB bridging capability (via USB-B port) for audio and Q-SYS PTZ-IP camera feeds to PCs, ideal for soft codec applications such as Google Meet™, Zoom™, Skype for Business™, Cisco Webex™ and others.
- True IT Software Integration: The Q-SYS Ecosystem is a true IT solution that is free of the fixed hardware limitations seen in competing products. It allows for greater functionality such as Layer 3 routing, LDAP contact server integration, SNMP monitoring, and more.
- Suite of Software-Based Conferencing Technology Applications: Built by QSC from the ground up, allowing for continued refinement, with minimal requirement for additional hardware. The suite includes next-generation AEC, multiple-instance SIP softphones, gain sharing and gating automixers.


Core 510i

## Integrated Core and I/O Expander

The Q-SYS Core 510i processor offers the most flexible audio I/O options of any Core in the Q-SYS portfolio, perfect for applications that require a diversity of analog, digital and networked audio connectivity. It features eight I/O card slots allowing for up to 128 x 128 local audio channels. The Core 510i processor also offers two modes of operation whereby it can be deployed as a Q-SYS Core processor with full processing capabilities, or configured as an I/O expander when configured via software as an I/O-510i.

### Q-SYS Core mode

- **Processing Power:** When deployed as a Q-SYS Core, the Core 510i processor provides an abundance of raw processing power for all audio, video and control requirements.
- **Network Channels:** Offers a total of 256 x 256 network audio channels for diverse connectivity options.
- **Software-Defined Acoustic Echo Cancellation:** Core 510i processor offers 64 channels of software-defined acoustic echo cancellation (AEC) for audio and video conferencing applications. Software AEC with adjustable tail-length can be applied to any audio source without any additional or specific hardware.

### Q-SYS Frame mode

- **Additional Input/Output Support:** When configured via software as an I/O-510i, the device offers the ability to add up to 128 x 128 audio channels in to the Q-SYS system for processing on a separate Q-SYS Core processor.
- **Customizable Bridge Network Support:** Core 510i processor can accommodate any combination of Q-SYS Type-II I/O cards. This is particularly useful when integrating large numbers of networked audio channels from Dante™, CobraNet™ or AVB™ devices and subsystems in to the Q-SYS Ecosystem.




Core 5200

## Next-Generation Q-SYS Enterprise Cores

The Q-SYS Core 5200 Enterprise processor combines Q-SYS, the professional AV industry's first Intel® based realtime operating system purpose built for reconfigurable audio, video and control (AV&C), with the robustness of Dell™ hardware and their most prolific and world renowned server platform. The Q-SYS Core 5200 processor is the first professional AV&C product available that illustrates the transition away from proprietary, single-use hardware devices to modern, software-based appliances leveraging the power of commercial off-the-shelf server hardware.

- **IT-Centric Ecosystem:** The Q-SYS Ecosystem is the only professional audio, video and control (AV&C) solution that is built from the ground up using modern IT technology, industry standard networking technology and mainstream software solutions to provide deterministic AV&C capabilities for the IT customer.
- Unmatched AV&C Processing Resources: The Core 5200 processor offers capability unmatched by any other audio, video or control processor making it the first solution to realize the flexibility and scalability of centralized AV&C processing in an economical manner.
- Software-Defined Acoustic Echo Cancellation: The Core 5200 processor offers 160 channels of software-defined acoustic echo cancellation (AEC) for audio and video conferencing applications. Software AEC with adjustable tail-length can be applied to any audio source without any additional or specific hardware.
- Resiliency and Robustness of Dell: The Core 5200 processor offers the real-time AV&C processing capabilities of the Q-SYS Ecosystem on Dell's most prolific and common IT server which has been fully vetted and used in IT environments and applications around the world. The Core 5200 offers access to iDRAC (integrated Dell Remote Access Controller), dual hot-swappable AC mains power supplies.

Q-SYS™

CX-Q Series Network Amplifiers

CX-Q 4K4 (network and analog inputs)

CX-Q Series network amplifiers combine a legacy of robust power amplifiers, advancements in high-efficiency output devices and native network transport, control and monitoring capabilities of the Q-SYS Ecosystem. CX-Q Series features four-and eight-channel models, capable of delivering customized power output loading and a total maximum power of up to 8000 W. Low impedance, 70 V or 100 V direct drive are available on all channels.

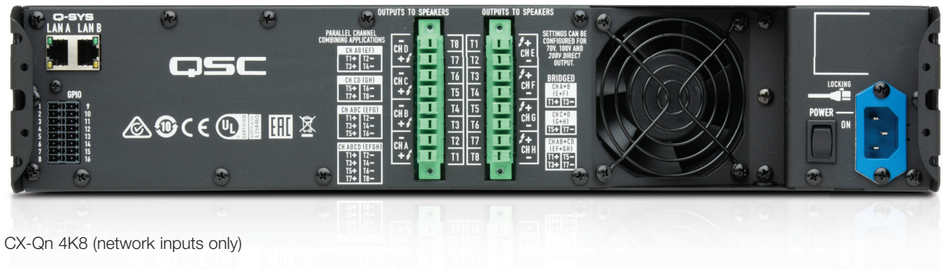
**Q-SYS Ecosystem Integration -** Like all Q-SYS peripherals, CX-Q Series network amplifiers offer simple drag-and-drop integration into your Q-SYS design, enabling network routing, advanced processing and control. This expedites the installation process and provides superior system performance far beyond that of third-party amplifier solutions.

**Legacy of Power Redefined -** CX-Q Series feature 5th generation high-efficiency, Class-D hybrid powertrain design built upon the dependable PL380 PowerLightTM amplifier platform. The new design offers both high voltage and high current operation with excellent audio quality and thermal performance.

**Flexible & Efficient Channel Power Distribution -** CX-Q Series network amplifiers combine two technologies that provide extreme flexibility in output deployment:

- **FlexAmp**™ allows for asymmetric output channel loading by drawing from large power reserves and distributing customized output power levels per channel. This reduces system cost by removing the need to specify multiple amplifiers with different power ratings in a multi-zone installation.
- **FAST (Flexible Summing Amplifier Technology™)** allows channels to be combined in bridge mode, parallel mode or bridge/parallel mode to deliver either higher voltage loads (up to 200 Vrms output) or higher current loads (up to 35 A).





CX-Qn 4K8 (network inputs only)

- Seamless Q-SYS™ integration with audio transport, control and monitoring via standard gigabit Ethernet protocols and hardware.
- Capable of providing up to 8,000 W of power with Low-Z, 70 V and 100 V direct drive available on all channels
- Hybrid circuit topology mixing the robustness of the PL380 PowerLight™ with new high-voltage output devices.
- FlexAmp™ Technology enables asymmetric power distribution across amplifier channels.
- Flexible Amplifier Summing Technology™ (FAST) optimizes for either high voltage loads (up to 200 Vrms output) or high current loads (up to 35 A).
- "Q" models offer local mic/line inputs into the Q-SYS Ecosystem;
  "Qn" models are "network input only" to reduce system cost
- PowerLight universal switchmode power supply with PFC for highest efficiency, and low weight.
- Eight bi-directional GPIO connections
- Touch-proof Euroblock loudspeaker connections
- Automatic energy saving modes ensure that the amplifier will draw the minimum amount of AC power while still providing outstanding audio quality.

| | | CX-Q 2K4 / CX-Qn 2K4 | CX-Q 4K4 / CX-Qn 4K4 |
|---|---|---|---|
| | | Max / FlexAmp | Max / FlexAmp |
| 4 Independent Channels<br>A, B, C, D | 70 V | 600 W / 800 W | 900 W / 1000 W |
| | 100 V | 600 W / 800 W | 900 W /1000 W |
| | 8 Ω | 600 W / 800 W | 900 W / 1000 W |
| | 4 Ω | 600 W / 800 W | 1200 W / 1500 W |
| | 2 Ω | 600 W / 700 W | 900 W / 1000 W |
| 2 Channels BTL Bridged<br>A+B or C+D<br>Doubles Voltage | 140 V | 1500 W / 1500 W | 2000 W / 2000 W |
| | 200 V | 1500 W / 1500 W | 2000 W / 2000 W |
| | 8 Ω | 1300 W / 1500 W | 2400 W / 3000 W |
| | 4 Ω | 1200 W / 1400 W | 1600 W / 1700 W |
| | 2 Ω | NR* | NR* |
| 2 Channels Parallel<br>AB or CD<br>Doubles Current | 70 V | 800 W / 1500 W | 1800 W / 2000 W |
| | 100 V | 800 W / 1500 W | 1150 W / 2000 W |
| | 8 Ω | 500 W / 800 W | 1000 W / 1000 W |
| | 4 Ω | 950 W / 1250 W | 2000 W / 2000 W |
| | 2 Ω | 1200 W / 1500 W | 2500 W / 2500 W |
| 1 Channel 3CH Parallel<br>ABC<br>Triples Current | 8 Ω | 500 W / 800 W | 1000 W / 1000 W |
| | 4 Ω | 950 W / 1250 W | 2000 W / 2000 W |
| | 2 Ω | 1500 W / 1500 W | 3000 W / 3000 W |
| 1 Channel Bridged/Parallel<br>AB+CD<br>Doubles Current and Voltage | 8 Ω | 1600 W / 2500 W | 3500 W / 3500 W |
| | 4 Ω | 2500 W / 3000 W | 4000 W / 4000 W |
| | 2 Ω | NR* | NR* |
| 1 Channel 4CH Parallel<br>ABCD<br>Quadruples Current | 8 Ω | 500 W / 800 W | 1000 W / 1000 W |
| | 4 Ω | 1000 W / 1250 W | 2000 W / 2000 W |
| | 2 Ω | 1500 W / 1700 W | 4000 W / 4000 W |
| | 1 Ω | 2000 W / 2500 W | 4000 W / 4000 W |

*NR* = Not Recommended due to excessive current draw*
*BOLD = Optimal configuration for the load and channel count*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



| | | CX-Q 8K4 / CX-Qn 8K4 |
|---|---|---|
| | | Max / FlexAmp |
| 4 Independent Channels<br>A, B, C, D | 70 V | 1250 W / 1250 W |
| | 100 V | 1250 W / 1250 W |
| | 8 Ω | 1250 W / 1250 W |
| | 4 Ω | 2000 W / 2400 W |
| | 2 Ω | 2000 W / 2700 W |
| 2 Channels BTL Bridged<br>A+B or C+D<br>Doubles Voltage | 140 V | 2400 W / 2400 W |
| | 200 V | 2400 W / 2400 W |
| | 8 Ω | 4000 W / 4500 W |
| | 4 Ω | 4000 W / 5000 W |
| | 2 Ω | 3000 W / 3000 W |
| 2 Channels Parallel<br>AB or CD<br>Doubles Current | 70 V | 2400 W / 2400 W |
| | 100 V | 2400 W / 2400 W |
| | 8 Ω | 1250 W / 1250 W |
| | 4 Ω | 2400 W / 2400 W |
| | 2 Ω | 4000 W / 5000 W |
| 1 Channel 3CH Parallel<br>ABC<br>Triples Current | 8 Ω | 1250 W / 1250 W |
| | 4 Ω | 2400 W / 2400 W |
| | 2 Ω | 4000 W / 5000 W |
| 1 Channel Bridged/Parallel<br>AB+CD<br>Doubles Current and Voltage | 8 Ω | 5000 W / 5000 W |
| | 4 Ω | 8000 W / 8000 W |
| | 2 Ω | 7000 W / 8000 W |
| 1 Channel 4CH Parallel<br>ABCD<br>Quadruples Current | 8 Ω | 1250 W / 1250 W |
| | 4 Ω | 2500 W / 2500 W |
| | 2 Ω | 5000 W / 5000 W |
| | 1 Ω | 8000 W / 8000 W |

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*BOLD = Optimal configuration for the load and channel count*

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| | | CX-Q 4K8 / CX-Qn 4K8 | CX-Q 8K8 / CX-Q 8K8 |
|---|---|---|---|
| | | Max / FlexAmp | Max / FlexAmp |
| 8 Independent Channels<br>A, B, C, D, E, F, G, H | 70 V | 500 W / 1000 W | 850 W / 1250 W |
| | 100 V | 500 W / 1000 W | 850 W / 1250 W |
| | 8 Ω | 500 W / 1000 W | 850 W / 1250 W |
| | 4 Ω | 500 W / 1000 W | 1000 W / 1500 W |
| | 2 Ω | 500 W / 1000 W | 600 W / 1200 W |
| 2 Channels Combined in<br>BTL Bridge A+B or C+D or<br>E+F or G+H Doubles Voltage | 140 V | 1400 W / 1500 W | 1800 W / 2000 W |
| | 200 V | 1400 W / 1500 W | 1800 W / 2000 W |
| | 8 Ω | 1000 W / 1500 W | 2000 W / 3000 W |
| | 4 Ω | 1200 W / 1400 W | 1600 W / 1700 W |
| | 2 Ω | NR* | NR* |
| 2 Channels Combined in Parallel<br>AB or CD or EF or GH<br>Doubles Current | 70 V | 1000 W / 1500 W | 1800 W / 2000 W |
| | 100 V | 1000 W / 1500 W | 1100 W / 2000 W |
| | 8 Ω | 1000 W / 1000 W | 1100 W / 1250 W |
| | 4 Ω | 1000 W / 1250 W | 1800 W / 2400 W |
| | 2 Ω | 1000 W / 1500 W | 2000 W / 2500 W |
| 3CH Combined in Parallel<br>ABC or EFG<br>Triples Current | 8 Ω | 1000 W / 1000 W | 1100 W / 1250 W |
| | 4 Ω | 1500 W / 1500 W | 1800 W / 2000 W |
| | 2 Ω | 1500 W / 1500 W | 2500 W / 2500 W |
| 4CH Combined in Bridged/Parallel<br>AB+CD, EF+GH<br>Doubles Current and Voltage | 8 Ω | 2000 W / 2500 W | 3600 W / 4000 W |
| | 4 Ω | 2000 W / 3000 W | 4500 W / 5000 W |
| | 2 Ω | NR* | NR* |
| 4CH Combined in Parallel<br>ABCD or EFGH<br>Quadruples Current | 8 Ω | 1200 W / 1000 W | 1000 W / 1200 W |
| | 4 Ω | 2000 W / 2000 W | 2000 W / 2400 W |
| | 2 Ω | 2000 W / 2500 W | 4000 W / 4000 W |
| | 1 Ω | 2000 W / 3000 W | 3000 W / 4000 W |

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RoHS

Q-SYS™

Network Switches


The Q-SYS NS Series are a range of enterprise-grade, Dell-manufactured network switches that have been pre-configured specifically to meet the performance requirements of the Q-SYS Ecosystem, as well as other network AV technologies, including AES67 and Dante. With a primary focus on Q-SYS audio, video & control (AV&C), these network switches provide an out-of-the-box, plug-and-play solution for Q-SYS integrators building local AV networks.

- **Expedite Deployment With A Plug-and-Play Solution:** Q-SYS NS Series network switches are pre-configured specifically to meet the performance requirements of Q-SYS audio, video and control (AV&C) systems, saving integrators an enormous amount of time installing local AV networks.
- AV Infrastructure for Today's Modern AV Ecosystem: QSC has paired rock-solid Dell EMC network switches with finely tuned switch configurations created by the Q-SYS product development team.
- Future-ready Solution: Q-SYS NS Series are the benchmark for future Q-SYS audio and video peripheral products, ensuring this investment in your AV infrastructure will support the expansion and evolution of your Q-SYS system for years to come.
- Flexible Network Scenarios: Q-SYS NS Series network switches support Q-LAN, AES67 and Dante™ audio streams in addition to Q-LAN video streaming and distribution, simultaneously within the same VLAN, without ever having to manually configure or adapt the QoS settings on the switches or end point devices.
- Intelligent Management & Convenient Connection Options: These switches automatically manage any multicast traffic on your network, which can be common with networked audio and video distribution systems. They also provide a number of PoE+ capable ports for convenient connection of networked AV peripherals.
- Reduce Support Requirements:  This investment in your AV ecosystem will decrease the need to engage with IT tech support saving you time, cost, and frustration associated with troubleshooting untested network switches.



**Q-SYS NS 1108P**

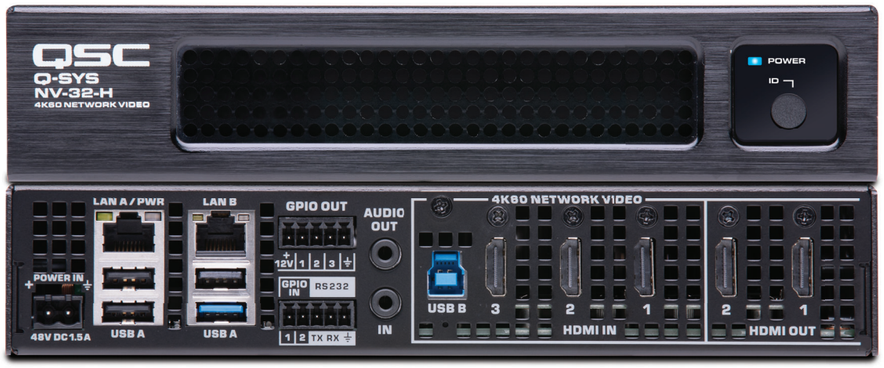
**Q-SYS NS 1124P**

**Q-SYS NS 1148P**

| | Q-SYS NS 1108P | Q-SYS NS 1124P | Q-SYS NS 1148P |
|---|---|---|---|
| **1Gbps Switch Ports (PoE+)** | 10 (4) | 24 (12) | 48 (24) |
| **SFP Ports** | 2 x 1 Gbps | 4 x 10 Gbps | 4 x 10 Gbps |
| **PoE Budget** | 75 W | 190 W | 375 W |
| **Stacking** | No | Yes | Yes |
| **Mounting** | 1 RU half-width | 1 RU | 1 RU |
| **Cooling** | Variable speed fan | Variable speed fan | Variable speed fan |
| **Power Supply** | Integrated AC mains | Integrated AC mains | Integrated AC mains |

Q-SYS™

Connected Meeting Room Solution

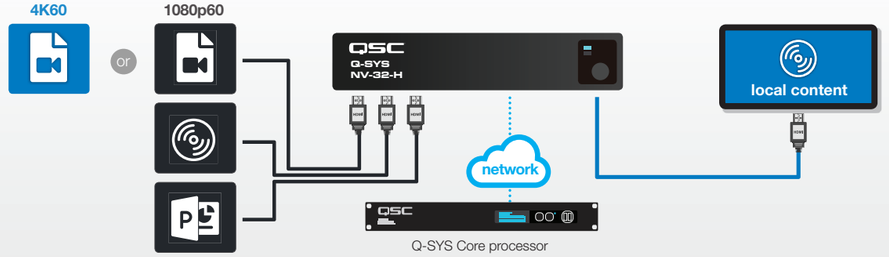


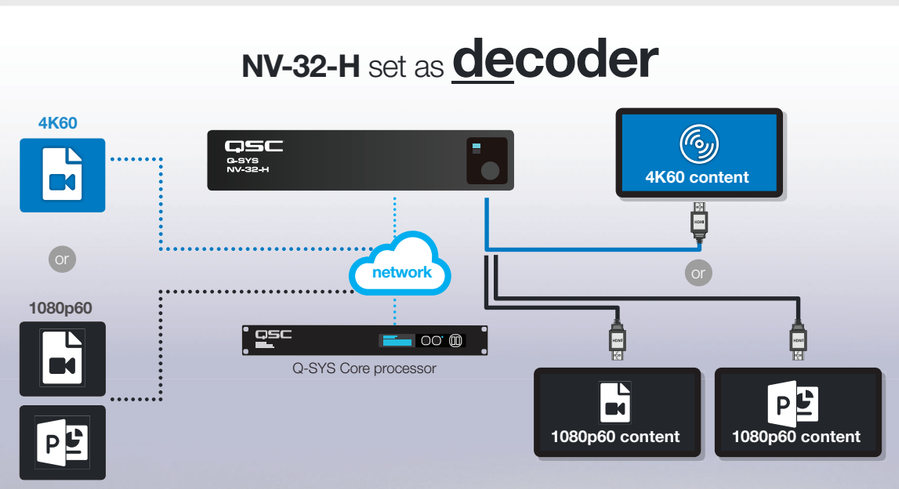

## Q-SYS NV Series

The Q-SYS NV Series (NV-32-H) is a network video endpoint native to the Q-SYS Ecosystem, serving as a multi-stream, software-defined HDMI encoder/decoder that enables network-based video streaming across a standard gigabit infrastructure.

- **Streamlined Video Streaming Integration for the Q-SYS Ecosystem:** The Q-SYS NV Series enables native HDMI video and audio distribution for the Q-SYS Ecosystem without additional control processors, bridges or complicated programming.
- Optimized for the Connected Meeting Space: NV Series delivers the right balance of quality (resolutions up to 4K60 4:4:4), latency and network efficiency for meeting room video applications, and offers the scalability to fit the needs of your enterprise.
- Unique Flexibility and Interoperability in a Single Device: The NV Series is software-configurable as either an encoder or decoder, and offers I/O capabilities that provide maximum design flexibility with less hardware.
- Network Optimized Compression Scheme: Q-SYS Shift™ video compression codec dynamically adjusts network bandwidth consumption according to video content, affording massive network savings for common meeting room content without compromising on full-motion video content.
- Web Conference Integration: The NV Series features built-in connectivity for Q-SYS web conference integration, allowing for driverless USB connectivity to a PC for plug-and-play access to Q-SYS audio and conference camera feeds from soft codec applications, reducing tableside hardware (and cost).






Q-SYS™

Connected Meeting Room Solution


## Q-SYS PTZ-12x72 / PTZ-20x60

- **Highest-quality HD Imaging:** These two 1080p Pan, Tilt, and Zoom (PTZ) conference room cameras cover all room types. The PTZ-12x72 is ideal for small and wide rooms, providing a wide 72° horizontal field of view and 12x optical zoom lens. The PTZ-20x60 is ideal for larger, longer room with a 20x optical zoom lens with a 60° horizontal field-of-view.
- Eliminates USB Limitations: A single PoE Ethernet cable simplifies the installation of these network cameras, allowing you to install as many cameras as you need to cover any room or an entire campus. When combined with the networked I/O USB Bridge, you can offer end users USB audio and video feed access points anywhere on the system. Q-SYS bridging peripherals allow you to simultaneously connect virtually any number of PCs to these cameras without complicated and expensive USB switches or extenders.
- Simplified Control: View and control video camera feeds from any Q-SYS user control interface. System designers can customize the camera controls to meet their needs, from simple automated conference room use to more comprehensive switching and monitoring controls.

Q-SYS™

Connected Meeting Room Solution


## Q-SYS I/O USB Bridge

- **Standard USB 2.0 Driverless Connection:** Q-SYS web conference integration solution leverages standard UAC and UVC USB drivers for USB audio and video. No additional software or drivers are required to integrate with modern PC operating systems and soft codec applications such as Google Meet™, Zoom™, Skype for Business™, Cisco Webex™ and others.
- AV Access Everywhere: Small enough to fit anywhere you need USB access into your Q-SYS installed room AV systems. These PoE network devices provide USB access to a host PC or other user device.
- Eliminates USB Limitations: Eliminate the need for complicated and expensive USB switches and extenders for Q-SYS USB/BYOD connectivity. Being a small PoE network peripheral, I/O USB Bridges can easily be mounted closely to every USB host that needs Q-SYS AV access.
- Redundancy: The I/O USB Bridge provides two network ports for fully redundant connectivity.




Q-SYS™

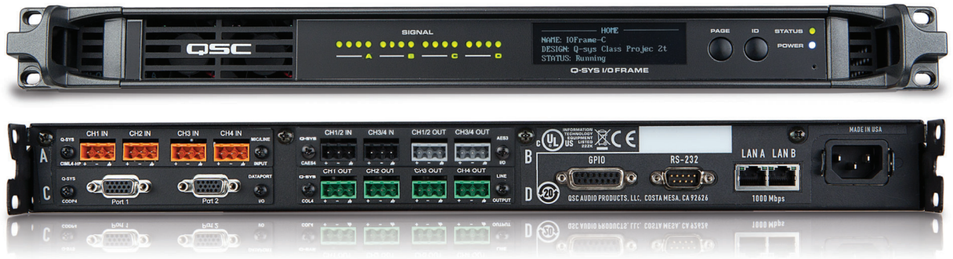
I/O Peripherals


## I/O-8 Flex Channel Expander

Q-SYS I/O-8 Flex allows for analog I/O deployment to a Q-SYS system either in the rack or remotely located near the source or destination device using only a single, PoE+ network cable.

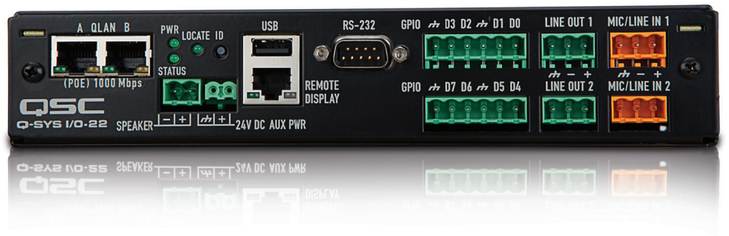
As part of the Q-SYS Ecosystem, the I/O-8 Flex is fully supported by all Q-SYS Core processors, making it a cost effective expander for the smaller Unified and Integrated Core series. Furthermore, when paired with the Enterprise Cores, the I/O-8 Flex allows for a truly centralized processing system.

- **Q-SYS Flex I/O Channels:** Eight channels of analog I/O that can be configured real-time in software as either a mic/line input with phantom power or line level output with single channel granularity.
- USB Audio Bridging: A single USB-B device port allows for hassle-free soft codec integration with the Q-SYS Ecosystem either at the rack or remotely in typical BYOD applications.
- Onboard Control I/O: 8x8 GPIO and one RS232 allow for additional in-room control options.
- PoE+ with Auxiliary Power Supply Input: PoE+ streamlines the workflow of the system designers and installers ensuring that it is both simple and cost effective to deploy anywhere on a standard IT network.




## I/O Frame

The Q-SYS I/O-Frame and Q-SYS Core 510i (in I/O-Frame mode) provide remote points of connection that interface Q-SYS with other components in the system, including microphones, mixers and power amplifiers. The I/O-Frame offers four available card slots and up to 16x16 audio I/O while the Core 510i (in I/O-Frame mode) offers eight available card slots and up to 128x128 channels of audio connectivity.




## I/O-22

Providing two mic/line inputs and two line outputs, the I/O-22 is ideal for applications such as legislative or judicial chambers, meeting rooms, ballrooms, ancillary zones, classrooms, VIP suites, and stage patching.

- Connects directly to the gigabit ethernet network via redundant Q-LAN ports (RJ-45 Ethernet connectors).
- Powered via PoE (Power over Ethernet) or 24 VDC.
- Includes an 8.5 watt mono amplifier to drive a local monitor speaker.
- Other connections include a scriptable RS-232 port and eight GPIO ports.



Q-SYS™

I/O Cards


Mic/Line Analog Input Card

AES-16 Digital Input Card


Analog Line Output Card


DataPort™ Output Card

Analog Telephony Card

Dante™ Network Audio Bridge Card


AES-3 Digital Input/Output Card


AVB Audio Bridge Card

## I/O Cards

The following cards are available for Q-SYS Core processors with card slots, as well as I/O Frames:

- **Mic/Line Analog Input Card (CIML4/CIML4-HP):** Four channels of mic/line-level analog audio input with 48 V phantom power. The input card is also available in a high performance version (CIML4-HP) featuring broadcast quality pre-amps and A/D converters.
- Analog Line Output Card (COL4): Four channels of balanced, line level analog output for interfacing between Q-SYS™ and outboard equipment such as amplifiers, recording devices and teleconference systems.
- Analog Telephony Card (CTEL4): Four RJ-11 interfaces (POTS) to connect Q-SYS to analog telephony environments.
- AES-3 Digital Input/Output Card (CAES4): Four input and four output channels of AES-3 digital audio for interfacing between Q-SYS and digital devices.
- AES-16 Input Card (CIAES-16): 16-channel AES/EBU (AES3) 24-bit digital input Q-SYS peripheral card that utilizes IT industry standard RJ45 connectors.
- DataPort Output Card (CODP4): Four audio output channels (2 DataPorts) for connection to DataPort equipped QSC amplifiers.
- Dante™ **Audio Bridge Card (CDN64):** Provides a bridge for up to 64 x 64 channels of Dante audio into the Q-SYS Ecosystem for redistribution over larger LAN and WAN IT infrastructures.
- AVB Audio Video Bridge Card (CAN32): Provides a digital bridge between any 100MB AVB 1722.1 compliant edge network and the Q-SYS Ecosystem. The CAN32 will support 32 total channels at 48 kHz in three available operating modes: 0/32, 32/0 or 16x16.

Q-SYS™
Feature Licenses

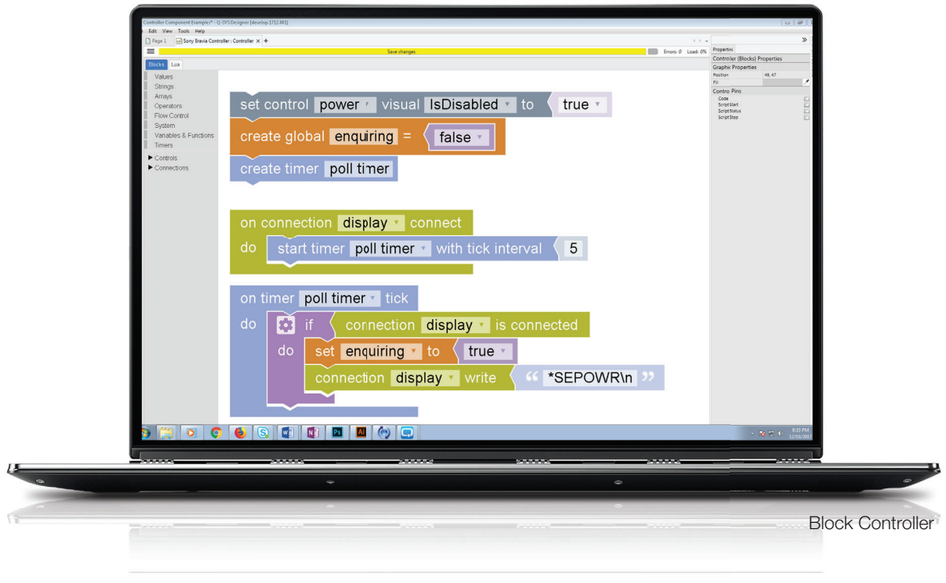

## Q-SYS UCI Editor

Create custom user control interfaces (UCI) for use with the Q-SYS Ecosystem. Design with absolute simplicity and automation in mind, or create comprehensive tuning and troubleshooting monitoring screens. This tool is ideal for system designers who need to create the ideal user experience, or for IT administrators who need to make small changes or add additional features to existing UCI designs.

- **No Programming Experience Required:** Build robust UCI screens by simply dragging any Q-SYS DSP or control element from the Q-SYS design schematic into the UCI Editor.
- **Advanced Visual Styling:** Create buttons with custom graphics for on/off/pressed states, utilize page transitions and pop-up screens, import custom backgrounds and corporate logos (graphic file formats including .png, .jpg, .svf, and .gif) and much more.
- **Painless Deployment:** Simple, one-button deployment for UCIs to native Q-SYS touch screens, from a single UCI, or hundreds of UCIs across an enterprise installation.

Requires license activation to deploy a design with custom UCI onto a Q-SYS Core processor.
See www.qsc.com/control for more details.






Block Controller

## Q-SYS Scripting Engine

Q-SYS offers one of the most full featured AV control platforms available, powered by its robust software-based scripting engine.

- **Third Party Control Plugins/Scripts:** Take advantage of a growing library of plugins and control scripts for some of the most commonly used elements of today's modern conference room (available for download through Q-SYS Designer Asset Manager). Q-SYS plugins are designed to easily integrate third-party devices into the Q-SYS Ecosystem in a matter of minutes.
- **Full Featured Scripting Component:** Integrate anything from the simplest function to the most complex, nuanced control scenario imaginable. Create custom scripts using modern, accessible scripting languages including Lua, an open-source, IT-friendly programming language.
- **Visual Coding Tool:** The new Block Controller component offers a drag-and-drop method for building control scripts within Q-SYS. Based on a concept originally developed by Google and MIT, this open source visual programming tool uses interlocking, graphical blocks to represent common programming concepts. It enables easy composition of sophisticated scripts, especially for novice programmers.

Requires license activation to deploy a design with plugins & scripting elements onto a Q-SYS Core processor.
See www.qsc.com/control for more details.

Q-SYS™

## TSC-G2 Series Touch Screen Controller




- **Capacitive LCD Touch Surface:** In-plane switching (IPS) technology for better off-axis viewing.
- Power Over Ethernet: Allows for simplified single cable installation.
- Universal Mounting Options: Included accessories for mounting to US standard and European wall and junction boxes.
- Complete Design Freedom: Drag and drop any control Q-SYS element from a Q-SYS Designer schematic into UCI Editor and easily deploy your design to the touch screen.

| | TSC-55w-G2 | TSC-80w-G2 | TSC-116w-G2 |
|---|---|---|---|
| Panel Dimensions | 5.85 in x 3.44 in x 1.33 in (148.5 mm x 87.5 mm x 33.7 mm) | 8.8 in x 5.8 in x 1.4 in (223.5 mm x 148.4 mm x 36.3 mm) | 12.3 in x 7.9 in x 1.6 in (313.6 mm x 201.5 mm x 39.85 mm) |
| Viewable screen dimensions (diagonal) | 5.5 in (127 mm) | 8.0 in (203 mm) | 11.6 in (295 mm) |
| Resolution | 1280 x 720 | 1280 x 800 | 1920 x 1080 |
| Brightness | 400 Nits | 400 Nits | 350 Nits |
| Aux Power PSU | +24 VDC @ 1.0 A (power supply not included) | | |
| Wall Mount | Yes | Yes | Yes |
| Table Top | No | Optional table top stand accessory | Optional table top stand accessory |
| Panel Orientation | Vertical / horizontal | Vertical / horizontal | Vertical / horizontal |

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS



Q-SYS™

## TSC Series Touch Screen Controller

### TSC-7t (tabletop) & TSC-7w (wallmount) Touch Screen Controller

- **Consolidate Control:** In addition to the dialing functionality for your conferences, this 7" screen (800px x 480px) can be used to control a myriad of third-party devices prevalent in boardrooms and meeting rooms via the Q-SYS Core processor (no additional control processor required).
- BYOD Bridging Options: Allows meeting participants to interface 2-way audio from Q-SYS to web conferencing applications like Skype for Business™ and Zoom™ via the touch screen's micro USB connection (TSC-7t model only).
- Capacitive Touch Technology: Eliminates physical knobs and buttons increasing product reliability.
- Single Drop PoE Cabling: Ethernet connection for simplified wire terminations without the need for additional power wiring.

| | TSC-7w | TSC-7t |
|---|---|---|
| Panel Dimensions | 5.6 in x 7.8 in x 1.5 in (143 mm x 198 mm x 38 mm) | 5.85 in x 3.44 in x 1.33 in (148.5 mm x 87.5 mm x 33.7 mm) |
| Resolution | 800 x 480 | 800 x 480 |
| Brightness | 400 Nits | 400 Nits |
| Aux Power PSU | +24 VDC @ 0.5 A (power supply not included) | |
| Wall Mount | Yes | No |
| Table Top | No | Built-in table stand |
| Panel Orientation | Horizontal | Horizontal |

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

Q-SYS™
Public Address Peripherals

Q-SYS™ offers a suite of tools that provide sophisticated paging and messaging functionality to support any-sized paging application including convention centers, transportation terminals, theme parks and more. Q-SYS offers a number of paging-specific advantages that sets it apart from alternative approaches:

- **Simple, Integrated Ecosystem:** Q-SYS enables paging with simplified bills of material including playback, record, and store-and-forward.
- Ample Paging Capacity: With Cores supporting up to 1024 total network channels.
- Page Stations: Built to withstand the rigors of daily use, all page stations are powered over Ethernet and offer secure access, high-fidelity gooseneck or handheld microphones, and capacitive touch buttons.
- PA Router: Supports live and delayed paging, scheduled messaging, announcement recording, live page routing, triggered playback, and event scheduling.

PS-1600G

## Q-SYS Networked Page Stations

Available with either gooseneck or handheld microphone (push to talk), the Q-SYS network page station is a dual-port network device that is fully configurable from Q-SYS Designer Software. Each station connects to a Q-SYS system via Q-LAN, which handles all audio deliveries to and from the station. Four networked page station models are currently available:


PS-1600H

- **PS-1600H/G:** 16 buttons total, including four command buttons (command code A-D). Also includes a numeric keypad and supports security features including automatic logoff time out, logon requirements, and user restrictions.
- PS-1650H/G: 16 command buttons (command code A-P).



## All Page station features:

- Two Q-LAN network interfaces enabling connection to two switch ports or deployment on two separate networks.
- Capacitive touchpad that offers visible feedback and audible cues including illuminated status indicators.
- Built-in 240 x 64 monochrome graphics LCD display.
- Powered via PoE (Power over Ethernet) or external 24VDC.
- Rear panel auxiliary audio inputs can accommodate a secondary microphone.
- Auxiliary output can drive a local amplifier, powered loudspeaker or other destination device.
- GPIO interface can be configured to use external events to affect paging operation or be the source of events to affect external control systems.
- Designed for both desktop and wall-mounted installation and include either handheld (H) or gooseneck (G) microphone.

## PS-X

A handheld paging accessory for any Q-SYS™ Page Station provides a secondary remote microphone and is designed to fit into a standard U.S. 2-gang wall box.

PS-X Paging Accessory

# AMPLIFIERS


CXD
4.2
PROCESSING
AMPLIFIER
4 CHANNEL
LO-Z / HI-Z
A B OUTPUT C D
MUTE
LIM
-10
-20
SEL
CLIP
SIG
1 2 INPUT 3 4
*F1: Config - A B C D
Output
A
AUTO
Type
Mild
PwrRat
2.15KW
Imped
8.0
QSC
CXD
4.3
HOME
ENTER
EXIT
GAIN
MASTER
CONTROL
5000 W

## MP-A Series Amplifiers


MP-A Series music and paging amplifiers build on a 50-year legacy of QSC amplifier experience by offering incredible amount of flexibility while maintaining high efficiency and low cost of ownership.

FlexAmp[tm] Technology, which is the driving force behind all three models in the series, provides each pair of channels a combined power of up to 400 W, which can be shared in any ratio between them.

- **MP-A20V:** one set of channel pairs; each channel pair shares 400 W; total: 400 W
- MP-A40V: two sets of channel pairs; each channel pair shares 400 W; total: 800 W
- MP-A80V: four sets of channel pairs; each channel pair shares 400 W; total: 1600 W

This makes for an amazing amount of flexibility, especially when paired with the output mode switches that offers settings for 4 Ω, 8 Ω, 70 V and 100 V.

An example of MP-A versatility could be an MP-A40V used in a restaurant. Output A of the amp is set up for a 20 W 70 V load for a pair of ceiling speakers in the bathrooms, while output B is set up in 4 Ω mode for driving one or two Lo-Z subwoofers with up to 380 W. Output C is set up with the highpass filter engaged for driving 250 W into 70 V ceiling speakers in the main dining room, while output D is driving 150 W into 8 Ω surface mount loudspeakers on the patio.



## MP-A Family Features

- Class-D output circuitry and switchmode power supplies.
- FlexAmp Technology: every pair of channels shares a 400 W power supply with each channel capable of delivering the full power.
- 1RU amplifier design for rack space savings.
- Each channel provides load selection for driving 4 Ω, 8 Ω, 70 V or 100 V loads.
- Each channel offers an 80 Hz highpass filter selection.
- Power saving features: Auto-standby (after 28 minutes with seamless auto-ramp when signal returns) and remote standby input.

| | MP-A20V | MP-A40V | MP-A80V |
|---|---|---|---|
| Channels | 2 | 4 | 8 |
| Power (all channels driven) | | | |
| 8 Ω | 200 W | 200 W | 200 W |
| 4 Ω | 200 W | 200 W | 200 W |
| 70 V | 200 W | 200 W | 200 W |
| 100 V | 200 W | 200 W | 200 W |
| FlexAmp Technology | 400 W for a pair of adjacent channels (1-2, 3-4, 5-6, 7-8) | | |


*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## SPA Series Amplifiers


The SPA Series are half rack 1RU, convection cooled power amplifiers, delivering two or four channels of power that can be bridged to supply up to 350 W per channel pairs into 70 V or 100 V. The SPA2-60 and SPA4-60 will deliver 60 W per channel, while the SPA4-100 will deliver 100 W per channel and SPA2-200 will deliver up to 200 W per channel into 4 Ω and 8 Ω. Utilizing an advanced Class-D amplifier design and universal power supply, the SPA Series are amazingly efficient, allowing them to be convection cooled and ENERGY STAR® qualified with quiet auto-ramp standby functionality. SPA Series amplifiers are housed in an unobtrusive half rack, 1RU chassis with unique mounting hardware enabling rack, table and wall mounting capabilities.

- Up to 200 watts into 4 Ω and 8 Ω, and up to 350 watts into 70 V and 100 V.
- **ENERGY STAR® qualified amplifier**: Efficient class-D amplifiers that conserve energy and require no active cooling, so they reduce operational costs.
- **Bridgeable outputs for higher power**: Bridging the outputs of the SPA Series amplifiers provide up to 400 W into low impedance, and 350 W into 70 V or 100 V offering outstanding flexibility.
- **Auto-Ramp provides quiet startup and power-down**: The Energy Star® Auto-Ramp circuitry ensures quiet and fast power up from Standby and seamless power-down following 25 minutes of inactivity, dramatically reducing power consumption.
- **Rack-mountable 1RU, half rack width enclosure**: Can be mounted in half RU reducing rack space requirements. In addition their clever joining “brackets” enable easy under-table and wall-mounting.



| | SPA2-60 | SPA4-60 | SPA2-200 | SPA4-100 |
|---|---|---|---|---|
| Stereo Mode | | | | |
| 8 Ω | 60 W | 60 W | 200 W | 100 W |
| 4 Ω | 60 W | 60 W | 200 W | 100 W |
| Bridged Outputs | | | | |
| 8 Ω & 4 Ω | 200 W | 200 W | 400 W | 200 W |
| 70V | 250 W | 250 W | 350 W | 350 W* |
| 100V | 250 W | 250 W | 350 W | 350 W* |

**Burst Power - dependant on other channel loads*
*All mounting hardware included*

*As part of QSC’s ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## CXD Series Processing Amplifiers


Representing a revolutionary advancement in amplifier design, CXD Series amplifiers feature powerful onboard DSP and deliver robust, high fidelity power housed in a 2RU chassis. Designed with integrators in mind, the CXD Series includes three models (CXD4.2, CXD4.3 & CXD4.5) capable of driving a wide range of loudspeaker configurations including 70 V and 100 V systems. Flexible Amplifier Summing Technology™ (FAST) actively distributes total amplifier power across one, two, three or all four outputs enabling amp channels to be paralleled or bridged for maximum current and voltage output.

- Up to 5,000 W continuous and 8,000 W peak with 70 V/100 V direct drive on the CXD4.3 and CXD4.5.
- Flexible Amplifier Summing Technology™ (FAST) permits total amplifier power to be distributed across one, two, three or all four channels.
- Onboard full function loudspeaker processing including crossover, EQ, limiting and alignment delay eliminate the need for outboard loudspeaker processors.
- Intrinsic Correction™ ensures optimum sonic performance of QSC loudspeakers.
- Preset Wizard simplifies setup, providing system design tools and loudspeaker selection.
- Default factory presets are available, or a user can modify and store as one of 50 user presets.
- Four Euroblock inputs and four Euroblock touch-proof loudspeaker outputs.



| | | CXD4.2 | CXD4.3 | CXD4.5 |
|---|---|---|---|---|
| | | Peak | Peak | Peak |
| 4 Independent Channels<br>A, B, C, D | 70 V | N/A | 500 W | 1000 W |
| | 100 V | N/A | 625 W | 1250 W |
| | 8 Ω | 500 W | 900 W | 1200 W |
| | 4 Ω | 700 W | 1400 W | 2000 W |
| | 2 Ω | 625 W | 1200 W | 1600 W |
| 2 Channels BTL Bridged<br>A+B or C+D<br>Doubles Voltage | 8 Ω | 1200 W | 2400 W | 4000 W |
| | 4 Ω | 1500 W | NR* | NR* |
| | 2 Ω | NR* | NR* | NR* |
| 2 Channels Parallel<br>AB or CD<br>Doubles Current | 8 Ω | 500 W | 1300 W | 1250 W |
| | 4 Ω | 950 W | 2000 W | 2400 W |
| | 2 Ω | 1200 W | 2500 W | 4000 W |
| 1 Channel 3CH Parallel<br>ABC<br>Triples Current | 8 Ω | 500 W | 1400 W | 1400 W |
| | 4 Ω | 950 W | 2400 W | 2500 W |
| | 2 Ω | 1800 W | 3500 W | 4500 W |
| 1 Channel Bridged/Parallel<br>AB+CD<br>Doubles Current and Voltage | 8 Ω | 1600 W | 3500 W | 4500 W |
| | 4 Ω | 2500 W | 5000 W | 7500 W |
| | 2 Ω | NR* | NR* | NR* |
| 1 Channel 4CH Parallel<br>ABCD<br>Quadruples Current | 8 Ω | 500 W | 1400 W | 1600 W |
| | 4 Ω | 1000 W | 3000 W | 3000 W |
| | 2 Ω | 1700 W | 5000 W | 5300 W |

*NR* = Not Recommended due to excessive current draw*
*BOLD = Optimal configuration for the load and channel count*

- PowerLight universal switchmode power supply with Power Factor Correction for highest efficiency, improved audio performance, and low weight.
- Amp Navigator software (via USB connection) running on a PC or Mac for control, monitoring, and amplifier management. Amp Navigator also provides on-line and off-line editing of presets and loudspeaker profiles along with library management.

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## CX Series Amplifiers


CX Series amplifiers are designed for installation applications requiring premium sound quality and high output. Recognized by sound contractors worldwide for their reliability, CX Series amplifiers feature PowerLight™ power supply technology reducing weight, eliminating AC mains hum and improving audio quality. The highly efficient power supply also draws less power and produces less heat resulting in added energy savings. They also feature advanced amplifier control and monitoring within the Q-SYS™ Ecosystem.

- Active inrush limiting gently brings amplifiers online eliminating the need for costly AC power sequencers.
- Front-panel gain controls with 1 dB detents allow for precise level adjustment and are protected by tamper-proof security covers.
- DataPort connections enable remote control and monitoring of amplifier functions via Q-SYS.
- Selectable clip limiters and infra-sonic filters protect loudspeakers from damage due to distortion and overexcursion.
- DataPort or EuroBlock connector Inputs and touch-proof barrier-strip outputs (2 ch models also include XLR inputs and 8 channel models feature EuroBlock connector outputs).
- Sleep (Standby) mode for energy saving efficiency.
- Transformer-less 70 /100 V models available.




CX 2-channel models


CX 4-channel models


CX 8-channel models

### Watts per channel

| Model | Channels | 70 V* | 8 Ω | 4 Ω | 2 Ω* |
|---|---|---|---|---|---|
| CX302V | 2 | 250 | – | – | – |
| CX602V | 2 | 440 | 550 | – | – |
| CX1202V | 2 | 1000 | 700 | 1100 | – |
| CX302 | 2 | – | 200 | 325 | 600 |
| CX502 | 2 | – | 300 | 500 | 800 |
| CX702 | 2 | – | 425 | 700 | 1200 |
| CX902 | 2 | 440 | 550 | 900 | 1500 |
| CX1102 | 2 | 1000 | 700 | 1100 | 1700 |
| CX204V | 4 | 220 | – | – | – |
| CX254 | 4 | – | 170 | 250 | 450 |
| CX404 | 4 | – | 250 | 400† | – |
| CX108V | 8 | 100 | – | – | – |
| CX168 | 8 | – | 90 | 130 | – |

*All channels driven. 20 Hz – 20 kHz, 0.05% THD  *1 kHz, 0.05% THD*
*†1 kHz, 0.1% THD*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

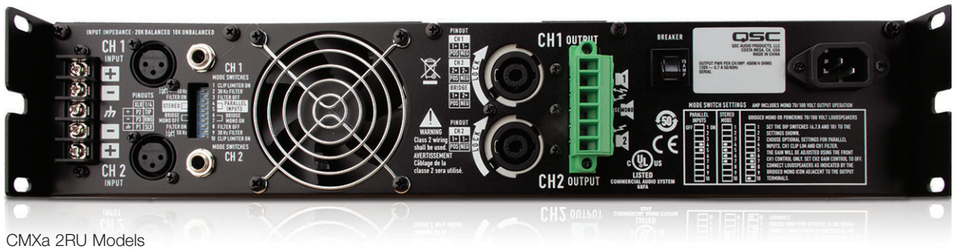
RoHS

## CMXa Series Amplifiers


CMXa Series amplifiers represent an economical and rugged power amplifier solution for installed sound applications. There are four CMXa models to choose from (CMX 300Va, CMX 500Va, CMX 800Va, and CMX 2000Va). Flexible input and output connectors make them ideal for use in projects such as performance halls, houses of worship, sport clubs, gymnasiums, dance venues, pubs, and FGM/BGM systems. CMXa Series provides unmatched performance and user options at an affordable price point.

- Flexible output loading options enable low impedance loads comfortably down to 2 Ω, and in some configurations will effortlessly drive 70 /100 V lines.
- Recessed front panel gain controls with 1 dB detents for fast and accurate level settings.
- Security plate cover for gain controls to provide tamper-proof protection.
- Recessed rear DIP switches for easy selection between stereo, parallel, or bridged mode operation, and the additional choice of enabling/disabling low frequency filter protection.
- Balanced XLR, TRS or barrier strip parallel inputs and NL4 or detachable block output connectors.






CMXa 2RU Models


CMX 2000Va (3RU Model)

### Watts per channel

| | Stereo | | Bridged | | Stereo | | Bridged | |
|---|---|---|---|---|---|---|---|---|
| Model | 70V | 100V | 70V | 100V | 8Ω | 4Ω | 2Ω* | 4Ω* |
| CMX 300Va | - | - | 600 | - | 200 | 300 | 430 | 830 |
| CMX 500Va | - | - | 1200 | 600 | 300 | 500 | 700 | 1400 |
| CMX 800Va | 400 | - | 2000 | 2300 | 500 | 800 | 1200 | 2400 |
| CMX 2000Va | 2500 | 1000 | - | 3600 | 1100 | 2000 | 2500 | 5000 |

*1 kHz, 0.1% THD  *1 kHz, 1% THD*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

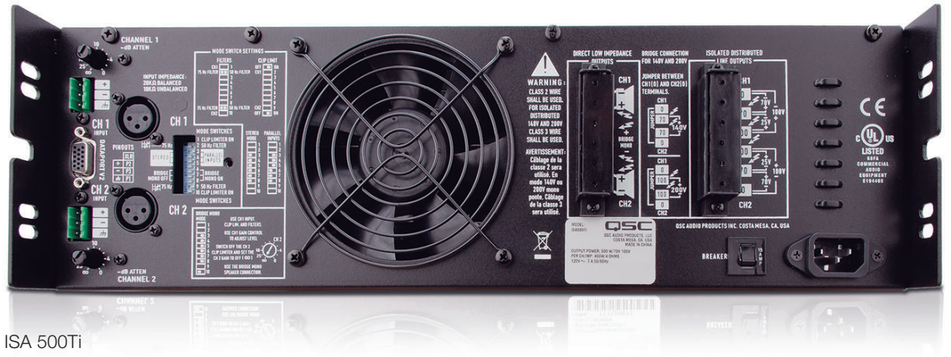
RoHS

## ISA Series Amplifiers


ISA Series amplifiers are an ideal, cost-effective solution for fixed installation applications requiring distributed loudspeakers. There are seven models in the line, four low impedance models (ISA 280, ISA 450, ISA 750, ISA 1350) rated down to 2 Ω loads and three “Ti” versions (ISA 300Ti, ISA 500Ti, ISA 800Ti) featuring isolated transformers for 25, 70 and 100 V distributed audio systems. The DataPort V2 Lite connection facilitates the use of amplifier accessories (XC-3, LF-3 and SF-3) providing economical crossover and subwoofer filtering solutions.

- Up to 2400 W total output power.
- 3RU chassis with rear-mounted gain controls featuring 2 dB detents.
- Independent, defeatable clip limiters reduce distortion and protect loudspeakers.
- Selectable high-pass filters protect against transformer saturation and driver overexcursion.
- Includes extensive DC, infrasonic, thermal overload, and short circuit protection.
- XLR and 3-pin block input connectors and touch-proof barrier strip outputs.






ISA 500Ti

**Watts per channel**

| Model | 70V* / 100V | 8 Ω** | 4 Ω** | 2 Ω† |
|---|---|---|---|---|
| ISA280 | - | 185 | 280 | 430 |
| ISA450 | - | 260 | 425 | 700 |
| ISA750 | - | 450 | 650 | 1200 |
| ISA1350 | 1500† | 800 | 1300 | 2000 |
| ISA300Ti | 300 | 185 | 280 | 430 |
| ISA500Ti | 500 | 260 | 425 | 700 |
| ISA800Ti | 800 | 450 | 650 | 1200 |

**50 Hz – 16 kHz, 0.5% THD  **20 Hz – 20 kHz, 0.1% THD  †1 kHz, 1% THD*
*†Direct Output, 70V, less than 0.1% THD, 20 Hz – 20 kHz, +0/-0.3 dB*

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RoHS

# LOUDSPEAKERS

## AcousticCoverage™ Series Loudspeakers

Ceiling-mount

AcousticCoverage™ Series is designed to offer integrators a cost effective solution for applications where voice reinforced coverage is of primary concern, while providing improved musicality often not seen in typical BGM class products. Applications for AccousticCoverage Series loudspeakers include wide area paging systems, background music, distance conferencing reinforcement, healthcare facilities, concourses, transportation terminals and more.

- High quality transducers provide exceptional clarity through the critical voice range.
- Ported baffle for increased low frequency extension.
- Low saturation 70/100 V transformers with 8 Ω bypass.
- 4-pole Euroblock connector eases system wiring.
- Advanced voicing filter sets using Intrinsic Correction™ available through either the Q-SYS™ Ecosystem or CXD Series processing amplifiers.
- White (RAL 9010) with UV inhibitors to match complimenting QSC loudspeaker series.
- Complete EASE, CAD & BIM information available online.



| | AC-C2T | AC-C4T |
|---|---|---|
| Frequency Range (-10 dB) | 80 Hz – 20 kHz | 70 Hz – 16 kHz |
| Power Capacity [1] | 16 W | 16 W |
| Broad-Band Sensitivity [2] | 86.5 dB | 89 dB |
| Coverage Angle | 150° (500 Hz - 5 kHz) | 140° (500 Hz - 5 kHz) |
| Output [3] (Peak SPL @ 1 m) | 104.5 dB | 107 dB |
| Driver Information | 2.5 in polypropylene cone with butyl rubber surround | 4.5 in polypropylene cone with butyl rubber surround |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Euroblock connector with parallel output terminals | Euroblock connector with parallel output terminals |
| Baffle Material | Painted ABS polymer | Painted ABS polymer |
| Cut-out Dimension | Ø 7.3 in (Ø 186 mm) | Ø 7.3 in (Ø 186 mm) |
| Product Dimension | Ø 8.4 in x 7.9 in (Ø 214 mm x 201 mm) | Ø 8.4 in x 7.9 in (Ø 214 mm x 201 mm) |
| Net Weight | 4.2 lb / 1.9 kg | 4.9 lb / 2.22 kg |

*1 IEC60268-1 noise signal for 2 Hrs.*
*2 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

## AcousticCoverage™ Series Loudspeakers

Ceiling-mount

| | AC-C6T | AC-C8T |
|---|---|---|
| Frequency Range (-10 dB) | 65 Hz – 20 kHz | 52 Hz – 20 kHz |
| Power Capacity [1] | 30 W | 80 W |
| Broad-Band Sensitivity [2] | 89 dB | 89 dB |
| Coverage Angle | 110° (500 Hz - 5 kHz) | 100° (500 Hz - 5 kHz) |
| Output [3] (Peak SPL @ 1M) | 110 dB | 114 dB |
| Driver Information | | |
| LF | 6.5 in polypropylene cone with butyl rubber surround | 8 in treated paper cone |
| HF | 0.86 in silk dome tweeter, coaxially mounted | 0.86 in silk dome tweeter |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Euroblock connector with parallel output terminals | Euroblock connector with parallel output terminals |
| Baffle Material | Painted ABS polymer | Painted ABS polymer |
| Cut-out Dimension | Ø 9 in (Ø 229 mm) | Ø 11.2 in (Ø 285 mm) |
| Product Dimension | Ø 10.24 in x 8.4 in (Ø 260 mm x 213 mm) | Ø 12.4 in x 11.3 in (Ø 316 mm x 288 mm) |
| Net Weight | 7.6 lb / 3.5 kg | 11.5 lb / 5.2 kg |

*1 IEC60268-1 noise signal for 2 Hrs.*
*2 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



Non-UL Versions

| | AC-C4T-NB | AC-C8T-NB |
|---|---|---|
| Frequency Range (-10 dB) | 62 Hz – 18 kHz | 53 Hz – 20 kHz |
| Power Capacity [1] | 6 W | 6 W |
| Broad-Band Sensitivity [2] | 93 dB | 96 dB |
| Coverage Angle | 140° (500 Hz - 5 kHz) | 130° (500 Hz - 5 kHz) |
| Output [3] (Peak SPL @ 1M) | 107 dB | 110 dB |
| Driver Information | 4 in treated paper cone | 8 in treated paper cone |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Bare wire transformer taps | Bare wire transformer taps |
| Baffle Material | Painted ABS polymer | Painted ABS polymer |
| Cut-out Dimension | Ø 9 in (Ø 228 mm) | Ø 11.06 in (Ø 281 mm) |
| Product Dimension | Ø 10.25 in x 5.8 in (Ø 260 mm x 148 mm) | Ø 12.3 in x 4.2 in (Ø 313 mm x 107 mm) |
| Net Weight | 2.6 lb / 1.2 kg | 3.4 lb / 1.5 kg |

*1 IEC60268-1 noise signal for 2 Hrs.*
*2 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

## AcousticDesign™ Series Loudspeakers
Ceiling-mount

The second generation of AcousticDesign™ Series ceiling-mount loudspeakers are high quality 70/100 V, two-way, full-range systems ideal for a wide variety of foreground, background, paging, and distance-conferencing applications.

**Designer Friendly:**

- Available in white (RAL 9010) or black (RAL 9011).
- Paintable grill & bevel.
- Deliberate 23 mm bezel width to match T-bar.
- Complete EASE, CLF, CAD & BIM information available online.

**Application Diverse:**

- UL listed (UL 1480 / UL2043).
- EN54-24 for use in voice alarm systems.
- UV Inhibitors in all white models.
- Powder-coated grills.
- Weather-treated cones.



**Install Ready**

- SnapFit magnetic grills.
- Low saturation 70/100 V transformers.
- 16 Ω low impedance bypass.
- 3x long-travel dog-ears.
- Screw-down Euroblock connector with loop-through.
- Removable conduit cover with no loose screws.
- Low profile, short back-can versions available.

**Factory Optimized:**

- **DMT (Directivity Matched Transition™):** Ensures smooth, uniform frequency response over the rated coverage area.
- Intrinsic Correction™**:** Factory voicings available through CXD Series processing amplifiers and Q-SYS Designer Software - delivers repeatable performance from project to project.

## AcousticDesign™ Series Loudspeakers

Ceiling-mount

| | AD-C4T-BK<br>AD-C4T-WH | AD-C4T-LP |
|---|---|---|
| Frequency Range (-10 dB) | 70 Hz – 20 kHz | 70 Hz – 20 kHz |
| Power Capacity [1] | 30 W | 30 W |
| System Sensitivity [2] | 87.5 dB | 87 dB |
| Coverage Angle | 150° conical DMT | 150° conical DMT |
| Output [3] (Peak SPL @ 1M) | 108 dB | 108 dB |
| Driver Information<br>LF | 4.5 in weather treated paper cone woofer | 4.5 in weather treated paper cone woofer |
| HF | 0.75 in aluminum dome tweeter | 0.75 in aluminum dome tweeter |
| Rated Impedance | 16 Ω | 16 Ω |
| UL1480 and UL2043 certified | Yes | Yes |
| EN54-24 Type A | Yes | No |
| Input Connectors | 4-pin Euroblock | 4-pin Euroblock |
| Cut-out Dimension | Ø 7.68 in (Ø 195 mm) | Ø 9.65 in (Ø 245 mm) |
| Product Dimension | Ø 9.06 in x 6.93 in<br>(Ø 230 mm x 176 mm) | Ø 11.02 in x 3.93 in<br>(Ø 280 mm x 100 mm) |
| Net Weight | 6.4 lb / 2.9 kg | 6.6 lb / 3 kg |

*1 IEC60268-1 noise signal for 2 Hrs.*
*2 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS



| | AD-C6T-BK<br>AD-C6T-WH | AD-C6T-LP |
|---|---|---|
| Frequency Range (-10 dB) | 65 Hz – 20 kHz | 65 Hz – 20 kHz |
| Power Capacity [1] | 60 W | 60 W |
| System Sensitivity [2] | 88 dB | 88 dB |
| Coverage Angle | 135° conical DMT | 135° conical DMT |
| Output [3] (Peak SPL @ 1m) | 112 dB | 112 dB |
| Driver Information<br>LF | 6.5 in weather treated paper cone woofer | 6.5 in weather treated paper cone woofer |
| HF | 1 in aluminum dome tweeter | 1 in aluminum dome tweeter |
| Rated Impedance | 16 Ω | 16 Ω |
| Input Connectors | 4-pin Euroblock | 4-pin Euroblock |
| UL1480 and UL2043 certified | Yes | Yes |
| EN54-24 Type A | Yes | No |
| Cut-out Dimension | Ø 9.65 in (Ø 245 mm) | Ø 12 in (Ø 305 mm) |
| Product Dimension | Ø 11.02 in x 9.32 in<br>(Ø 280 mm x 237 mm) | Ø 13.37 in x 3.95 in<br>(Ø 340 mm x 100 mm) |
| Net Weight | 9.5 lb / 4.3 kg | 9.3 lb / 4.2 kg |

*1 IEC60268-1 noise signal for 2 Hrs.*
*2 On-Axis, free-field sensitivity, 2.83V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticDesign™ Series Loudspeakers
Ceiling-mount

## AD-C820R/S | AD-C821R/S

The AD-C820R/S and AD-C821R/S (R for round grille and S for square grille) loudspeaker systems are designed for ceiling mounted loudspeaker applications requiring high SPL output. The AD-C820R/S Systems ship with the AD-C800BB backcan and are perfect for pre-installed applications.

The AD-C821R/S systems incorporate a fully integrated, factory sealed enclosure and use “dog-ear” style mounting - perfect for blind mount installations. Both models also include a set of tile rails and C-rings to complete the installation.

- 8-inch low-frequency woofer with 1.4-inch diaphragm coaxially-mounted compression driver.
- 52 Hz – 18 kHz frequency range.
- 200 W continuous power rating.
- 90° conical coverage.
- 70 V/100 V multi-tap transformer included with low impedance bypass.
- Ceramic input screw terminal complies with European safety standards.
- AD-C820 transducer/baffle assembly for separated backcan installation.
- AD-C821 designed as a fully integrated blind-mount system.



| | AD-C820/C821 |
|---|---|
| Effective frequency range | 52 Hz – 18 kHz |
| Power Capacity [1] | 200 W (100 hrs) |
| Sensitivity [2] | 91 dB |
| Nominal Coverage | 90° conical |
| Output [3] (Peak SPL @ 1M) | 120 dB |
| Driver Information<br>LF<br><br>HF | <br>8 in weather treated, cone woofer<br><br>1.4 in coaxial compression driver |
| Rated Impedance | 16 Ω |
| Input Connectors | AD-C820: Ceramic block<br>AD-C821: 4-pin Euroblock<br>Fire protective sub-chamber |
| Enclosure | UL-rated steel backcans |
| Product Dimensions | Ø 14.9 in x 8.3 in<br>(Ø 379 mm x 211 mm) |
| Net Weight (each) | 17.5 lb / 7.9 kg |

*1 Continuous IEC specified test signal, 2 hours unless otherwise stated.*
*2 Based on nominal impedance, measured in full space. 1 W @ 1 m.*
*3 Calculated using specified power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.*

*As part of QSC’s ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AD-C1200

The AD-C1200 loudspeaker is designed for ceiling mounted loudspeaker applications requiring high SPL output. The AD-C1200 features coaxial LF/HF transducers, a transformer and a crossover network factory-mounted on a steel baffle. The baffle is designed to mount to the QSC enclosure (AD-C1200BB) or to any 2.5-inch enclosure using industry-standard transducer / baffle mounting points.

## AD-C81Tw

The AD-C81Tw is a ceiling mounted subwoofer designed for use with both ceiling-mount and surface mounts AcousticDesign Series loudspeakers. Like the smaller format, full-range models, the AD-C81Tw utilizes dog-ear mounting tabs and ships complete with C-rings and tile rails.



| | AD-C81Tw | AD-C1200 |
|---|---|---|
| Frequency Range (-10 dB) | 28 Hz – 208 Hz | 37 Hz – 18 kHz |
| Power Capacity [1] | 250 W (100 hrs) | 300 W (100 hrs) |
| System Sensitivity [2] | 94 dB | 93 dB |
| Coverage Angle | N/A | 85° conical |
| Output [3] (Peak SPL @ 1 m) | 118 dB | 124 dB |
| Driver Information<br>LF<br><br>HF | <br>8 in weather treated, polypropelene cone woofer, rubber surround<br>N/A | <br>12 in weather treated cone woofer, 75 mm voice coil, ferrite magnet<br>1.75 in coaxial compression driver |
| Rated Impedance | 8 Ω | 16 Ω |
| Input Connectors | Ceramic block or 4-pin Euroblock, fire protective sub-chamber | Ceramic block terminals<br>Fire protective sub-chamber |
| Cut-out Dimension | Ø 11.65 in (Ø 296 mm) | |
| Product Dimension | Ø 12.6 in x 14.5 in<br>(Ø 321 mm x 368 mm) | 23 in x 18 in x 15.5 in<br>(584 mm x 454 mm x 393 mm) |
| Enclosure | Steel back can | |
| Net Weight (each) | 7.5 lb / 3.4 kg | 78 lb / 35.3 kg |

*1 Continuous IEC specified test signal, 2 hours unless otherwise stated.*
*2 Based on nominal impedance, measured in full space. 1 W @ 1 m.*
*3 Calculated using specified power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticDesign™ Series Loudspeakers
Pendant-mount

AcousticDesign™ Series pendant-mount loudspeakers are high quality 70/100 V, two-way, full-range systems ideal for a wide variety of foreground and background business music applications.

### Designer Friendly:

- Deliberately unobtrusive industrial design.
- Available in white (RAL 9010) or black (RAL 9011).
- Paintable enclosure and grille.
- Complete EASE, CLF, CAD & BIM information available online.

### Application Diverse:

- Lightweight rugged ABS construction.
- UV Inhibitors in all white models.
- IP-54 rating for dust and splash resistance.
- Powder-coated grills and weather-treated cones.

### Install Ready:

- SnapFit magnetic grills.
- Low saturation 70/100 V transformers.
- 16 Ω low impedance bypass.
- 2x quick link wire assemblies with slip-lock fastener supplied.
- Screw-down Euroblock connector with loop-through.
- Sealable input weather cup – keeps moisture away from wiring.



### Factory Optimized:

- **DMT (Directivity Matched Transition™):** Ensures smooth, uniform frequency response over the rated coverage area.
- Intrinsic Correction™**:** Factory voicings available for CXD Series amplifiers and Q-SYS Designer Software - delivers repeatable performance from project to project.

## AcousticDesign™ Series Loudspeakers
Pendant-mount

| | AD-P4T-BK | AD-P4T-WH |
|---|---|---|
| Effective frequency range | 70 Hz – 20 kHz | 70 Hz – 20 kHz |
| Power Capacity [1] | 30 W | 30 W |
| System Sensitivity [2] | 87.5 dB | 87.5 dB |
| Coverage Angle | 150° conical DMT | 150° conical DMT |
| Output [3] (Peak SPL @ 1M) | 108 dB | 108 dB |
| Driver Information | | |
| LF | 4.5 in weather treated paper cone woofer | 4.5 in weather treated paper cone woofer |
| HF | 0.75 in aluminum dome tweeter | 0.75 in aluminum dome tweeter |
| Rated Impedance | 16 Ω | 16 Ω |
| Input Connectors | 4-pin Euroblock | 4-pin Euroblock |
| Net Weight | 6.5 lb / 2.9 kg | 6.5 lb / 2.9 kg |
| Product Dimensions | Ø 9.3 in x 10.7 in (Ø 237 mm x 272 mm) | Ø 9.3 in x 10.7 in (Ø 237 mm x 272 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 On-Axis, free-field sensitivity, 2.83V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS



| | AD-P6T-BK | AD-P6T-WH |
|---|---|---|
| Effective frequency range | 65 Hz – 20 kHz | 65 Hz – 20 kHz |
| Power Capacity [1] | 60 W | 60 W |
| System Sensitivity [2] | 88 dB | 88 dB |
| Coverage Angle | 140° conical DMT | 140° conical DMT |
| Output [3] (Peak SPL @ 1 m) | 112 dB | 112 dB |
| Driver Information | | |
| LF | 6.5 in weather treated paper cone woofer | 6.5 in weather treated paper cone woofer |
| HF | 1 in aluminum dome tweeter | 1 in aluminum dome tweeter |
| Rated Impedance | 16 Ω | 16 Ω |
| Input Connectors | 4-pin Euroblock | 4-pin Euroblock |
| Net Weight | 9 lb / 4.1 kg | 9 lb / 4.1 kg |
| Product Dimensions | Ø 11.3 in x 12.7 in (Ø 287 mm x 323 mm) | Ø 11.3 in x 12.7 in (Ø 287 mm x 323 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 On-Axis, free-field sensitivity, 2.83V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticCoverage™ Series Loudspeakers
Surface-mount

AC-S6T AC-S4T

AcousticCoverage™ Series is designed to offer integrators a cost effective solution for applications where voice reinforced coverage is of primary concern, while providing improved musicality often not seen in typical BGM class products. Applications for AcousticCoverage loudspeakers include wide area paging systems, background music, distance conferencing reinforcement, healthcare facilities, concourses, transportation terminals and more.

- High quality transducers provide exceptional clarity through the critical voice range.
- Ported baffle for increased low frequency extension.
- Low saturation 70/100 V transformers with 8 Ω bypass.
- 4-pole Euroblock connector eases system wiring.
- Advanced voicing filter sets using QSC's Intrinsic Correction™ available through either the Q-SYS™ Designer Software or CXD Series processing amplifiers.
- Spring-loaded and rotatable logo on grill for installation convenience in either horizontal or vertical deployments.
- Complete EASE, CAD & BIM information available online.



| | AC-S4T-BK<br>AC-S4T-WH | AC-S6T-BK<br>AC-S6T-WH |
|---|---|---|
| Effective Frequency Range (-10 dB) | 70 Hz – 20 kHz | 60 Hz – 20 kHz |
| Power Capacity[1] | 16 W | 30 W |
| System Sensitivity[2] | 85 dB SPL | 86 dB SPL |
| Coverage Angle | 130° (500 Hz - 5 kHz) | 130° (500 Hz - 5 kHz) |
| Output [3] (Peak SPL @ 1M) | 103 dB | 107 dB |
| Driver Information | 4.5 in polypropylene woofer with 1 in voice coil | 6.5 in polypropylene woofer with 1 in voice coil |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Euroblock connector with parallel output terminals | Euroblock connector with parallel output terminals |
| Baffle Material | Painted ABS polymer | Painted ABS polymer |
| Net Weight | 5.2 lb / 2.4 kg | 8.3 lb / 3.8 kg |
| Product Dimensions (HWD) | 9.1 in x 6.3 in x 5.9 in<br>(230 mm × 160 mm × 150 mm) | 11.9 in x 8.5 in x 7.8 in<br>(303 mm × 215 mm × 197 mm) |

*1 IEC60268-1 noise signal for 2 Hrs.*
*2 On-Axis, free-field sensitivity, 2.83V, 1 m.*
*3 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

## AcousticDesign™ Series Loudspeakers

Column Surface-mount

The all new AcousticDesign™ Series column surface-mount loudspeakers are high quality 70/100 V or 8 Ω bypass, full-range systems ideal for a wide variety of foreground and background applications with acoustically-challenged environments.

### Designer Friendly:

- Deliberately unobtrusive industrial design.
- Available in white (RAL 9010) or black (RAL 9011).
- Paintable enclosure and grill.
- Complete EASE, CLF, CAD & BIM information available online

### Application Diverse:

- Rugged aluminum construction.
- UV Inhibitors in all white models.
- IP-54 rating for dust and splash resistance.
- Powder-coated grills and weather-treated cones.

### Install Ready

- Close to wall pan/tilt bracket included.
- Low saturation 70/100 V transformers.
- 8 Ω low impedance bypass.
- Selectable broad/narrow beam contour (AD-S162T only).
- Screw-down Euroblock connector with loop-through.
- Sealable input weather cup – keeps moisture away from wiring.



| | AD-S802T | AD-S162T |
|---|---|---|
| Effective Frequency Range [1] | 90 Hz - 17 KHz | 90 Hz - 17 kHz |
| Power Capacity [2] | 120 W | 200 W |
| System Sensitivity [3] | 87 dB | 88 dB wide<br>89 dB narrow |
| Coverage Angle<br>Horizontal (-6 dB) | 160° (1 kHz - 10 kHz) | 160° (1.2 kHz - 6 kHz) wide<br>160° (2 kHz - 6 kHz) narrow |
| Coverage Angle<br>Vertical (-6 dB) | 20° (1 kHz - 17 kHz) | 30° (900 Hz - 17 kHz) wide<br>15° (1.5 kHz - 17 kHz) narrow |
| Output [4]<br>(Peak SPL @ 1M) | 114 dB | 117 dB wide<br>118 dB narrow |
| Driver Information | 8x 2.5 in weather treated paper cone woofer | 16x 2.5 in weather treated paper cone woofer |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | 4-pin Euroblock | 4-pin Euroblock |
| Enclosure | Aluminum | Aluminum |
| Ingress protection | IP-54 | IP-54 |
| Net Weight | 14.4 lb / 6.55 kg | 25 lb / 11.36 kg |
| Product Dimensions (HWD) | 23.4 in x 5.2 in x 5 in<br>(595 mm x 131 mm x 126 mm) | 45.8 in x 5.2 in x 5 in<br>(1162 mm x 131 mm x 126 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticDesign™ Series Loudspeakers

Surface-mount

The second generation of AcousticDesign™ Series surface-mount loudspeakers are professional, 70/100V, two-way, full-range systems ideal for a wide variety of foreground, background, ancillary and sound reinforcement. Ease-of-installation was the driving principle behind these new surface loudspeakers, culminating in the patented X-Mount™ wall bracket with best-in-class functionality and repeatable angles.

### Designer Friendly:

- Available in white (RAL 9010) or black (RAL 9011).
- Paintable grill & enclosure.
- Complete EASE, CLF, CAD & BIM information available online.

### Application Diverse:

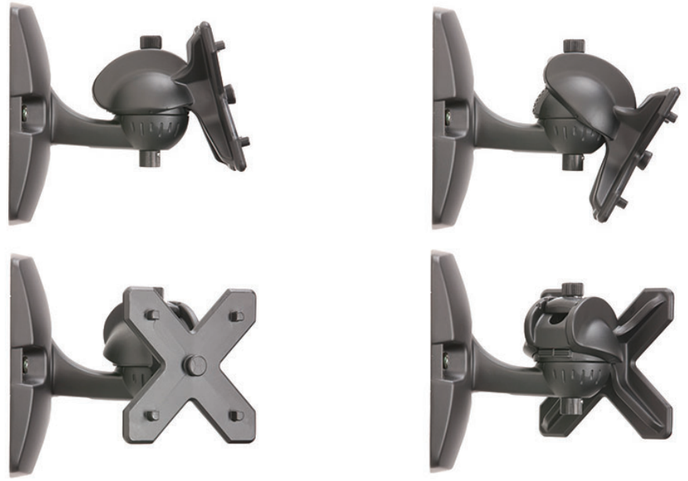
- IP-54 for dust and splash resistance.
- Lightweight rugged ABS construction with UV Inhibitors.
- Powder coated aluminum grills, X-Mount™ and treated hardware.
- Weather-treated cones.

### Install Ready

- Patented X-Mount provides rapid deployment with repeatable angles.
- Low saturation 70/100 V transformers (excluding AD-S12/AD-S112SW).
- 8 Ω low impedance bypass.
- Euroblock connector with loop-through.
- Sealable input weather cup - keeps moisture away from wiring.
- Optional yoke mount and M10 Kit-C for larger models (AD-S8T/AD-S10T/AD-S12).



Input terminal cover

Patented X-Mount™ mounting system

### Factory Optimized:

- **DMT (Directivity Matched Transition™):** Ensures smooth, uniform frequency response over the rated coverage area.
- Intrinsic Correction™**:** Factory voicings available through CXD Series processing amplifiers and Q-SYS Designer Software - delivers repeatable performance from project to project.

## AcousticDesign™ Series Loudspeakers

Surface-mount

| | AD-S4T-BK<br>AD-S4T-WH | AD-S6T-BK<br>AD-S6T-WH |
|---|---|---|
| Effective Frequency Range [1] | 70 kHz – 20 kHz | 60 kHz – 20 kHz |
| Power Capacity [2] | 50 W | 150 W |
| System Sensitivity [3] | 87 dB SPL | 89 dB SPL |
| Coverage Angle (-6 dB) | 120° conical DMT | 105° conical DMT |
| Output [4] (Peak SPL @ 1M) | 110 dB | 116 dB |
| Driver Information<br>LF<br><br>HF | 4.5 in weather treated paper cone woofer<br><br>0.75 in silk dome tweeter / 0.75 in voice coil | 6.5 in weather treated paper cone woofer 1 in silk dome tweeter /<br><br>1 in voice coil |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Euroblock connector with parallel output terminals | |
| Enclosure | Painted ABS polymer | Painted ABS polymer |
| Ingress Protection | IP-54 | IP-54 |
| Net Weight | 6.5 lb / 2.95 kg | 13.6 lb / 6.2 kg |
| Product Dimensions (HWD) | 10.3 in × 6.34 in × 6.42 in<br>(261 mm × 161 mm × 163 mm) | 20.3 in × 12.5 in × 11.7 in<br>(516 mm × 318 mm × 298 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



| | AD-S8T-BK<br>AD-S8T-WH | AD-S10T-BK<br>AD-S10T-WH |
|---|---|---|
| Effective Frequency Range [1] | 55 kHz – 20 kHz | 50 Hz – 19 kHz |
| Power Capacity [2] | 200 W | 250 W |
| System Sensitivity [3] | 90 dB SPL | 92 dB SPL |
| Coverage Angle (-6 dB) | 105° conical DMT | 90° conical DMT |
| Output [4] (Peak SPL @ 1M) | 121 dB | 122 dB |
| Driver Information<br>LF<br><br>HF | 8 in weather treated paper cone woofer<br>1 in exit / 1.4 in voice coil compression driver | 10 in weather treated paper cone woofer, 2.5 in / 64 mm voice coil<br>1in exit / 1.4 in voice coil compression driver |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Euroblock connector with parallel output terminals | |
| Enclosure | Painted ABS polymer | Painted ABS polymer |
| Ingress Protection | IP-54 | IP-54 |
| Net Weight | 24.1 lb / 11 kg | 31 lb / 15 kg |
| Product Dimensions (HWD) | 17.3 in × 10 in × 9.9 in<br>(440 mm × 254 mm × 251 mm) | 20.3 in × 12.5 in × 11.7 in<br>(516 mm × 318 mm × 298 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-Axis, free-field sensitivity, 2.83V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

## AcousticDesign™ Series Loudspeakers

Surface-mount

| | AD-S12-BK<br>AD-S12-WH | AD-S112sw-BK<br>AD-S112sw-WH |
|---|---|---|
| Effective Frequency Range [1] | 52 Hz – 20 kHz | 30 Hz - 135 Hz |
| Power Capacity [2] | 300 W | 300 W |
| System Sensitivity [3] | 95 dB SPL | 90 dB SPL |
| Coverage Angle (-6 dB) | 75° conical DMT | N/A |
| Output [4] (Peak SPL @ 1 m) | 126 dB | 121 dB |
| Driver Information<br>LF<br><br>HF | 12 in weather treated paper cone woofer,<br>2.5 in / 64mm voice coil<br><br>1 in exit / 1.4 in voice coil<br>compression driver | 12 in weather treated paper cone woofer,<br>2.5 in / 64 mm voice coil |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Euroblock connector with parallel output terminals | |
| Enclosure | Painted ABS polymer | Painted ABS polymer |
| Ingress Protection | IP-54 | IP-54 |
| Net Weight | 35 lb / 16 kg | 29 lb / 13.2 kg |
| Product Dimensions (HWD) | 23.4 in x 13.9 in x 12.7 in<br>(594 mm x 354 mm x 323 mm) | 23.4 in x 13.9 in x 12.7 in<br>(594 mm x 354 mm x 323 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-Axis, free-field sensitivity, 2.83 V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS



AD-S10T with patented
X-Mount™ mounting system

Included Sealed
Input Cover

## AcousticDesign™ Series Loudspeakers

Indoor/Outdoor Surface-mount

### AD-S32T

Ideal for background and general purpose audio playback, the AD-S32T loudspeaker offers a full sound in a surprisingly small package. For outdoor applications, the plated screw input signal terminals can be sealed with the included weather cover.

- Includes ball mount assembly and yoke mount.
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grill.
- Available in black or white.
- Sealable input weather cup – keeps moisture away from wiring.

### AD-S282H/AD-S282HT

For installations requiring additional low-frequency performance combined with higher acoustical output, the dual 8-inch AD-S282H / AD-S282HT is an ideal solution. The AD-S282H / AD-S282HT features contemporary styling and is perfect for a variety of environments and applications.

- Low impedance (AD-S282H) and 70/100 V with 8 Ω bypass (AD-S282HT) versions.
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grill.
- Available in black or white.
- Yoke bracket included.



| | AD-S32T-BK<br>AD-S32T-WH | AD-S282H-BK<br>AD-S282H-WH | AD-S282HT-BK<br>AD-S282HT-WH |
|---|---|---|---|
| Effective Frequency Range (-10 dB) [1] | 65 Hz – 20 Hz | 60 Hz – 20 kHz | 60 Hz – 20 kHz |
| Power Capacity [2] | 30 W (100 hrs) | 450 W (8 hrs) | 450 W (8 hrs) |
| System Sensitivity [3] | 85 dB | 93 dB | 93 dB |
| Coverage Angle | 100° conical | 90° H x 60° V rotatable | 90° H x 60° V rotatable |
| Rated Impedance | 8 Ω | 8 Ω | 8 Ω |
| Output [4] (Peak SPL @ 1 m) | 105 dB | 126 dB | 126 dB |
| Driver Information<br>LF | 3 in weather treated, poly-propylene cone woofer | Dual 8 in high-power treated cone, 2 in voice coil, neodymium magnet | Dual 8 in high-power treated cone, 2 in voice coil, neodymium magnet |
| HF | 0.75 in neodymium tweeter | 1 in high output compression driver | 1 in high output compression driverw |
| Rated Impedance | 8 Ω | 8 Ω | 8 Ω |
| Input Connectors | Screw terminals | Barrier strip (switchable: passive/bi-amp) | Barrier strip |
| Enclosure | Injection molded, weather treated high impact polystyrene | | |
| Net Weight | 4 lb / 1.8 kg | 27.7 lb / 12.6 kg | 27.7 lb / 12.6 kg |
| Product Dimensions (HWD) | 7.9 in x 4.8 in x 5.5 in (202 mm x 123 mm x 140 mm) | 26.2 in x 10.2 in x 11.4 in (665 x 259 x 290 mm) | 26.2 in x 10.2 in x 11.4 in (665 x 259 x 290 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-Axis, free-field sensitivity, 2.83V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticDesign™ Series AD-S28Tw Subwoofer

Surface-mount

Designed and acoustically matched for use with AcousticDesign™ Series installation loudspeakers, the AD-S28Tw is a dual 8-inch surface mount subwoofer that complements any of the ceiling-mount or surface-mount AD Series full-range models. Efficient band-pass design features one sealed chamber and a second, ported chamber that combine to produce extended low frequency reproduction.

- Dual 8-inch weather treated polypropylene woofers provide exceptional resistance in high humidity environments.
- Bass extension down to 36 Hz.
- Built-in, passive 120 Hz low-pass filter.
- 70/100 V multi-tap transformer with 8 Ω bypass.
- Marine grade plywood enclosure.
- Nickel plated screw terminals accept up to 12 AWG (2.053 $mm^2$) wiring.
- Rubber feet allow floor or shelf deployment.
- Forged-shoulder eyebolts and steel yoke enable suspended installation (included).



**AD-S28Tw**

| | |
|---|---|
| Effective Frequency Range (-10 dB) [1] | 36 Hz – 205 Hz |
| Power Capacity [2] | 250 W (2 hours IEC) |
| System Sensitivity | 94 dB, 2.83 V, 1 m, half space (2 π) |
| Output [3]<br>2π (half space)<br>4π (full space) | <br>124 dB SPL / 118 dB SPL<br>118 dB SPL / 112 dB SPL |
| Driver Information | Dual 8 in (200 mm) weather treated, polypropylene cone woofers, rubber surround |
| Nominal Impedance | 8 Ω |
| Input Connectors | 4 position barrier strip; 2 in / 2 out |
| Enclosure | Marine-grade plywood |
| Environmental | Exceeds mil spec 810 for humidity, salt spray and dust; IEC 60529 IP-X4 splash rating |
| Net Weight | 43 lb / 19.5 kg |
| Product Dimensions (HWD) | 15.9 in x 9.9 in x 22.8 in<br>(404 mm x 251 mm x 603 mm) |

*1 All frequency ranges specified refer to measured free field response.*
*2 Maximum input power tested in accordance with IEC 268-5 recommendations, 50 Hz – 20 kHz band limiting, 6 dB signal crest factor.*
*3 Calculated SPL at 1m, speaker operating at rated RMS power with pink noise within specified frequency range.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticPerformance™ Series Loudspeakers

Installation Point-and-Shoot

AcousticPerformance™ Series is a line of professional loudspeakers ideally suited for a wide variety of foreground sound reinforcement applications requiring high sound pressure levels from an unobtrusive, stylish enclosure. AcousticPerformance™ Series loudspeakers utilize DMT (Directivity Matched Transition™), a design approach that matches HF waveguide to the natural coverage angle of the woofer at the crossover region. This innovation vastly improves the loudspeakers power response resulting in smooth and consistent coverage both on and off axis.

- DMT (Directivity Matched Transition™): Ensures smooth, coherent power response across the listening plane.
- M10 and yoke mount fittings: Offer flexible deployment options for a variety of applications.
- Clean industrial design: Unadorned grilles compliment most decors and settings.
- 16-guage powder coated steel grilles.
- Complete EASE, CAD, and BIM information available online.



| | AP-5102 | AP-5122 |
|---|---|---|
| Effective Frequency Range (-10 dB) [1] | 60 Hz – 18 kHz | 48Hz – 18 kHz |
| Power Capacity [2] | 450 W / 54 V continuous | 550 W / 60 V continuous |
| System Sensitivity [3] | 94 dB, 1W @ 1 m | 95 dB, 1 W @ 1 m |
| Coverage Angle | 105° conical DMT | 90° conical DMT |
| Output [4] (Peak SPL @ 1 m) | 127 dB | 128 dB |
| Driver Information | | |
| LF | 10 in driver with 3 in voice coil; 450 W / 54 V (2 Hrs) | 12 in driver with 4 in voice coil; 450 W / 60 V (2 Hrs) |
| HF | 3 in voice coil, compression driver; 72 W / 24 V (2 Hrs) | 3 in voice coil, compression driver; 72 W / 24 V (2 Hrs) |
| Rated Impedance | 8 Ω | 8 Ω |
| Input Connectors | Barrier strip, NL4 connector | Barrier strip, NL4 connector |
| Enclosure | 15-ply Baltic birch plywood | 15-ply Baltic birch plywood |
| Net Weight | 48 lb / 21.7 kg | 65 lb / 29.5 kg |
| Product Dimensions | 22 in × 12 in × 10.5 in (559 mm x 305 mm x 267 mm) | 26 in × 15 in × 13 in (660 mm x 381 mm x 330 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-axis, free-field sensitivity, 2.83 V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## AcousticPerformance™ Series Loudspeakers

Installation Point-and-Shoot

| | AP-5152 | AP-5122m |
|---|---|---|
| Effective Frequency Range (-10 dB) [1] | 44 Hz – 18 kHz | 50 Hz – 18 kHz |
| Power Capacity [2] | 625 W / 65 V continuous | 400 W / 40 V continuous |
| System Sensitivity [3] | 96 dB, 1 W @1 m | 96 dB, 1 W @ 1 m |
| Coverage Angle | 75˚ conical DMT | 90˚ conical DMT |
| Output [4] (Peak SPL @ 1 m) | 129 dB | 128 dB |
| Driver Information<br>LF<br><br>HF | <br>15 in driver with 4 in voice coil / 65 V (2 Hrs)<br><br>3 in voice coil, compression driver;<br>72 W / 24 V (2 Hrs) | <br>12 in driver with 4 in voice coil / 60 V (2 Hrs)<br><br>3 in voice coil, compression driver;<br>72 W / 24 V (2 Hrs) |
| Rated Impedance | 8 Ω | 4 Ω |
| Input Connectors | Barrier strip, NL4 connector | Barrier strip, NL4 connector |
| Enclosure | 15-ply baltic birch plywood | 15-ply baltic birch plywood |
| Net Weight | 80 lb / 36.2 kg | 39.7 lb / 18.1 kg |
| Product Dimensions (HWD) | 32 in × 17.5 in × 15.2 in<br>(813 mm x 445 mm x 386 mm) | 22.5 in × 15.1 in × 14.5 in<br>(510 mm × 385 mm × 370 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-axis, free-field sensitivity, 2.83V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



| | AP-212sw |
|---|---|
| Effective Frequency Range (-10 dB) [1] | 35 Hz – 250 Hz |
| Power Capacity [2] | 600 W / 49 V continuous |
| System Sensitivity [3] | 93 dB, 1 W @ 1 m |
| Coverage Angle | NA |
| Output [4] (Peak SPL @ 1 m) | 127 dB |
| Driver Information<br>LF<br><br>HF | <br>2x 12 in driver with weather treated cone woofer |
| Rated Impedance | 4 Ω |
| Input Connectors | Barrier strip, NL4 connector |
| Enclosure | 15-ply baltic birch plywood |
| Net Weight | 65.4 lb / 29.7 kg |
| Product Dimensions (HWD) | 26 in × 15 in × 24 in<br>(660 mm × 381 mm × 610 mm) |

*1 Free-field, -10 dB from on-axis sensitivity.*
*2 IEC60268-1 noise signal for 2 Hrs.*
*3 On-axis, free-field sensitivity, 2.83V, 1 m.*
*4 Calculated from rated noise voltage and sensitivity.*

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# AcousticDesign™ Series Loudspeakers

## Small Format SUB/SAT

The AcousticDesign™ Series SUB/SAT loudspeaker line offers unprecedented acoustic performance within a small form factor often desired for architectural acceptance. Backed by the QSC loudspeaker legacy of quality and support, this line supports retail, restaurant, hospitality and other commercial spaces. Even at low volume levels, the AcousticDesign Series SUB/SAT loudspeakers provide exceptional warmth and crystal-clear highs for remarkable acoustic ambiance.

## Architecturally pleasing:

*Support the aesthetic of demanding installations.*

- Small form factor with unobtrusive, stylish industrial design.
- Available in white (RAL 9010) or black (RAL 9011).
- Paintable, unadorned grills and enclosures.

## Solution for every space:

*One comprehensive catalog simplifies quoting/design process.*

- Mix-&-match subwoofers and satellites - perfectly balanced sonic characteristics allow interchangeability between enclosure types.
- Indoor/outdoor usage - Sealed input panel covers, UV inhibitors, powder-coated aluminum grilles, rugged ABS enclosures (for AD surface-mount loudspeakers).
- Complete EASE, DXF, CLF, BIM, REVIT, A&E information available online.

## Easy to install:

*Minimize installation and commissioning labor costs.*

- Built-in high pass satellite outputs to speed installation and ease wiring.
- Screw-down Euroblock connectors.
- Snap-Fit magnetic grills (for ceiling-mount and pendant models).
- Easy, repeatable mounting system for surface-mount models.
- 4 Ω low impedance bypass.



| | AD-C.SAT | AD-C.SUB |
|---|---|---|
| Enclosure Type | Ceiling-mount | Ceiling-mount |
| Effective Frequency Range (-10 dB) | 150 Hz – 20 kHz | 45 Hz – 150 kHz |
| Power Capacity | 25 W | 100 W |
| System Sensitivity | 82 dB | 150 dB |
| Coverage Angle | 170° | N/A |
| Output (Peak SPL @ 1 m) | 96 dB | 106 dB |
| Driver Information<br>LF | N/A | 6.5 in DVC subwoofer, paper cone, rubber surround |
| HF | 2.75 in full range, paper cone, rubber surround, inverted aluminum dust cap | N/A |
| Rated Impedance | 16 Ω | 4 Ω |
| 70 / 100 V | N/A | 100 W max tap |
| UL1480 and UL2043 certified | Yes | Yes |
| Input Connectors | 2-pin Euroblock | 4-pin Euroblock |
| Cut-out Dimension | 4.4 in (Ø 112 mm) | 11.9 in (Ø 302 mm) |
| Product Dimension | Ø 5.9 in x 3.4 in (Ø 150 mm x 86 mm) | Ø 13.4 in x 10 in (Ø 340 mm x 254 mm) |
| Net Weight | 1.4 lb / 0.64 kg | 19.2 lb / 8.70 kg |

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

| | AD-P.SAT | AD-P.SUB |
|---|---|---|
| Enclosure Type | Pendant-mount | Pendant-mount |
| Effective frequency range | 150 Hz – 20 kHz | 55 Hz – 150 Hz |
| Power Capacity | 25 W | 100 W |
| System Sensitivity | 82 dB | 86 dB |
| Coverage Angle | 170° | N/A |
| Output (Peak SPL @ 1 m) | 96 dB | 106 dB |
| Driver Information | | |
| LF | N/A | 6.5 in DVC subwoofer, paper cone, rubber surround |
| HF | 2.75 in full range, paper cone, rubber surround, inverted aluminum dust cap | N/A |
| Rated Impedance | 16 Ω | 4 Ω |
| 70 / 100 V | N/A | 100 W max tap |
| Input Connectors | 2-pin Euroblock | 4-pin Euroblock |
| Net Weight | 0.92 lb / 416 g | 16.5 lb / 7.5 kg |
| Product Dimensions (HWD) | Ø 4.3 in x 4.5 in (Ø 110 mm x 115 mm) | Ø 13.5 in x 13.8 in (Ø 345 mm x 350 mm) |

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



| | AD-S.SAT | AD-S.SUB |
|---|---|---|
| Enclosure Type | Surface-mount | Surface-mount |
| Effective Frequency Range | 150 Hz – 20 kHz | 45 Hz – 150 Hz |
| Power Capacity | 25 W | 100 W |
| System Sensitivity | 82 dB | 86 dB |
| Coverage Angle (-6 dB) | 170° | N/A |
| Output (Peak SPL @ 1 m) | 96 dB (each satellite) | N/A |
| Driver Information | | |
| LF | N/A | 6.5 in DVC subwoofer, paper cone, rubber surround |
| HF | 2.75 in full range, paper cone, rubber surround, inverted aluminum dust cap | N/A |
| Rated Impedance | 16 Ω | 8+8 Ω (stereo) or 4 Ω (mono) |
| 70 / 100 V | N/A | 100 W max tap |
| Input Connectors | 2-pin Euroblock | 4-pin Euroblock |
| Net Weight | 0.95 lb (433 g) | 23.6 lb (10.7 kg) |
| Product Dimensions (HWD) | 3.5 in x 5.4 in x 3.6 in (89 mm x 136 mm x 92.5 mm) [1] | 3.5 in x 5.4 in x 3.6 in (89 mm x 136 mm x 92.5 mm) [2] |

*1 Includes wall bracket (WxDxH)*
*2 Wall bracket adds 22.5mm to width (WxDxH)*

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# ILA Series
Installation Line Array

WL2082-i with WL118-sw using EB2082-i extension bar and FB2082-i fly-bar.

Designed for installation applications while retaining the performance of high-end touring line array systems, the ILA Series takes this concept and builds on it by offering a complete and accessible solution consisting of processing, amplification, line array, subwoofer and suspension accessories. Built around the WL2082-i line array element, the system offers both flying (WL118-sw) or ground-stacked (GP118-sw) subwoofer options.



## WL2082-i

- Dual 8-inch diameter low-frequency drivers.
- Dual 1.75-inch voice coil diameter, neodymium compression drivers with titanium domes.
- Patented* multiple aperture diffraction waveguide that provides extremely wide coverage (140º).
- Available in black or white and constructed from high impact polystyrene.
- May be used in outdoor applications where the system is not directly exposed to the elements.

| | WL2082-i |
|---|---|
| Effective Frequency Range (-10 dB) | 68 Hz – 22 kHz |
| Nominal Coverage | 140° Horizontal |
| System Sensitivity [1] | 132 dB |
| Power Handling [2]<br>HF<br>LF / MF / Bi-amp<br>Tri-amp | <br>100 W<br>400 W<br>200 W + 200 W |
| Driver Information<br>LF<br>HF | <br>2 x 8 in transducers; 2 in voice coil; neodymium magnet<br>2 x 1.75 in titanium diaphragm, neodymium magnet |
| Input Connectors | 2 x NL8 in parallel |
| Enclosure | HiPS |
| Net Weight (each) | 37 lb / 16.8 kg |
| Product Dimensions (HWD) | 11.8 in x 27 in x 13.4 in<br>(300 mm x 686 mm x 340 mm) |

*1 Calculated at 1 m using power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.*
*2 Continuous IEC specified test signal, 2 hours.*

**Patent No. 7,177,437*

*As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*

RoHS

## ILA Series
Installation Line Array

GP118-sw

## GP118-sw Subwoofer

- 18-inch diameter low-frequency driver.
- 850 W continuous power handling.
- Performance down to 29 Hz.
- Integrated M10 suspension points.
- M20 threaded pole mount.
- Available in black or white and housed in a birch plywood enclosure.

## WL118-sw Subwoofer

- 18-inch diameter low-frequency driver.
- 850 W continuous power handling.
- Performance down to 29 Hz.
- Flyable on top or behind an ILA array.
- Available in black or white and housed in a birch plywood enclosure.



| | GP118-sw | WL118-sw |
|---|---|---|
| Effective Frequency Range (-10 dB) | 29 Hz – 800 Hz | 29 Hz – 800 Hz |
| System Sensitivity [1] | 134.5 dB | 134.5 dB |
| Power Capacity [2] | 850 W | 850 W |
| Driver Information (LF) | 18 in transducer, 4 in voice coil, ferrite magnet | |
| Input Connectors | 2 x NL8 in parallel and 2 x NL4 in parallel | |
| Enclosure | Premium birch plywood | |
| Net Weight (each) | 107 lb / 48.5 kg | 111 lb / 50.4 kg |
| Product Dimensions (HWD) | 20.9 in x 25.8 in x 30.4 in<br>(531 mm x 656 mm x 772 mm) | 22.1 in x 27.6 in x 30.3 in<br>(562 mm x 702 mm x 771 mm) |

*1 Calculated at 1 m using power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.*
*2 Continuous IEC specified test signal, 2 hours.*

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RoHS

# MIXERS


OUTPUTS [LINE LEVEL]
CH 1 | CH 2
CH 3 | CH 4
CH 5 | CH 6
CH 7 | CH 8
MUSIC ON HOLD
QSC
MP-M40
8 INPUT / 4 OUTPUT
MUSIC AND PAGING
ZONE MIXER
QSC
MP-M80
16 INPUT / 8 OUTPUT
MUSIC AND PAGING
ZONE MIXER
★Preset:
Opening
LunchRush
HappyHour
Exit -->
DiningRm 3
DVD Player
Volume:
59
QSC

## MP-M Series

Zone mixers and control peripherals

The QSC MP-M music and paging mixers are mixer/processors offering unprecedented capabilities combined with ease of configuration and operation, contained in a reduced footprint (standard 1RU rackspace). Intended for retail and hospitality applications in which high-quality audio from various sources is routed to multiple zones, as well reinforcement applications for entertainment, presentations or conferences.

## Hardware

- Inputs/outputs: The MP-M80 has eight mic/line inputs, eight line inputs and eight zone outputs while the MP-M40 has four mic/line inputs, four line inputs and four zone outputs. Each line input features dual phono-jacks (summed to mono) for easy connection to the sources typically found in business music installations.

## Processing/Mixing

- Input processing: Comprehensive processing includes high and low-pass filters, 4-band parametric EQ, a gate and a dynamics processor that may be configured as an automatic gain control (AGC) or a compressor.
- Output (zone) processing: Mix any combination of input channels as sources for any output zone. Two input channels can be designated as priority sources that will ‘duck’ the selected input channel for paging/announcements or to allow a higher-priority source to take over. There are processing blocks for auto-loudness, equalization (1/3 octave GEQ), limiting and anti-feedback notch filters.
- Conference/live performance options: An integral stereo mixer may be used for reinforcement of live performance or for conference/presentation mixing. Effects processing and a gain-sharing automatic microphone mixer are both available.
- Loudspeaker processing: Intrinsic Correction™ voicings are available for QSC loudspeakers. Users can also create custom loudspeaker voices.



| | MP-M40 | MP-M80 |
|---|---|---|
| **Inputs** | | |
| Total | 8 | 16 |
| Mic/Line | 4 (Euroblock) | 8 (Euroblock) |
| RCA | 4 (mono-summed RCA pairs) | 8 (mono-summed RCA pairs) |
| **Outputs** | | |
| Total | 6 | 10 |
| Line | 4 (Euroblock, balanced) | 8 (Euroblock, balanced) |
| Cue (phones) | 1 (3.5 mm, stereo) | 1 (3.5 mm, stereo) |
| Music on hold | 1 (Euroblock) | 1 (Euroblock) |
| **Input Processing** | | |
| EQ | 4-band parametric EQ, variable 24 dB/octave HPF and LPF | |
| Dynamics | Gate, choice of Auto Gain Control (AGC) or Compressor | |
| Delay | 100 msec | 100 msec |
| **Output Processing** | | |
| EQ | 1/3 octave GEQ | |
| Anti-Feedback | 12-band variable notch filters | |
| Dynamics & Effects | Limiter, ducker, loudness, multi-effects processor | |
| Delay | 100 msec | 100 msec |
| Loudspeaker tuning | Factory: Intrinsic Correction(TM) voicing for QSC loudspeakers<br>User: 6-band Parametric EQ, HPF, LPF | |
| **Control** | | |
| Ethernet | 1 x RJ45 for connection to Wi-Fi router (user supplied) | |
| MP-MFC ports | 2 x RJ45, supports up to 4 controllers, cable lengths up to 250 m | |
| Wireless Control | MP Install and MP Manage apps for iOS and Android via Wi-Fi | |
| GPI | 2 Inputs (Euroblock, black) | |
| Net Weight | 7.0 lb (3.2 kg) | 7.0 lb (3.2 kg) |
| Product Dimensions (HWD) | 1.75 in x 19 in x 14 in (4.5 cm x 48.3 cm x 35.6 cm) | |


MP Manage MP Install

## Software

### MP Install

(for iOS/Android tables, Windows and Mac OS)

- Configure and tune: Used by the system designer and installer to configure and tune the system.
- Configure anywhere: Offline and online use is supported allowing the designer to pre-configure a system without connecting to MP-M hardware. Wireless control lets the installer walk the room while tuning.
- Workflow wizards: Includes a Setup Wizard and tools to assist the installer with system tuning and commissioning.
- End user control options: Provides as much or as little control as the installation requires for the available MP-MFC wall-mounted controllers or MP Manage wireless end user app.

### MP Manage

(for iOS/Android tablets and smartphones)

- Wireless facility control: Facility staff use MP manage for day-to-day operation of basic system functions.
- Feature-rich: Zone level control and source selection, scene recall, scheduling, mixer control along with wireless store-and-forward paging from smartphones.
- Assignable control access: Create multiple user profiles to grant individuals access to only those functions they need.




## Controllers

### MP-MFC Controllers

- Easy end user control: Clearly labeled graphic display is configurable to control or restrict access to recalling scenes, as well as selecting source and adjust level for one of more zones.
- Convenient colors and sizes: MP-MFC controllers will fit in North American or European electrical boxes and come in black and white. The North American version is compatible with Decora® wall plates.
- Controls where you need them: Up to eight MP-MFC controllers may be connected to a single MP-M using standard CAT5 cabling. The MP-M has two ports, each of which can accommodate four daisy-chained controllers with a maximum total cable length of 250 m.

**MP-MFC**

| | |
|---|---|
| Controls | Three buttons (Increment/decrement, and select) |
| Connectors | 2 x RJ45 |
| Resolution | 128 x 128 pixels, 27 x 26 mm viewing area |
| Maximum per MP-M | Up to 8 controllers per system (4 per leg) / up to 250 m cable length per leg |
| Available Colors | White or black |
| Dimensions (HWD) | North American Versions:<br>4.5 in x 2.75 in x 1.0 in (11.4 x 7.0 x 3.5 cm)<br>European Versions:<br>3.5 in x 3.5 in x 1.4 in (8.9 x 8.9 x 3.6 cm) |

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