



Q-SYS™
Integrated System
Platform

**PS-1650G | PS-1600G |
PS-800G | PS-400G**
Networked Page Stations
Gooseneck Models



Features

- Capacitive touch, programmable keypad and 240 x 64 graphics LCD for flexible customization
- Fully compatible with all Q-Sys systems. Simply connect to a Q-Sys system (with version 2.0 software or later) and all paging functions are available without the need for additional hardware boxes
- Second microphone input and GPIO allow one Page Station to serve two locations
- Dual Ethernet connections support network redundancy
- May use Power over Ethernet (PoE) or local power supply
- Flexible, securely mounted gooseneck microphone (activated by keypad)
- Q-Sys technical support is available **24/7**
24/7 – worldwide

The Q-Sys Page Stations are network devices for use in transportation, hospitality and other facilities that require live paging to selected zones. Like all Q-Sys system components, functionality of the Page Stations are defined and configured by the system designer using Q-Sys Designer. Once a Q-Sys design file has been created, it is then deployed to a Q-Sys Core Processor over the Q-LAN network. The Page Station works in conjunction with the “Public Address Router”, a suite of Q-Sys software to provide extensive and sophisticated paging functionality.

Q-Sys Page Stations provide two network interfaces (two gigabit Ethernet ports) for connection to the Q-Sys system. This allows the Page Stations to be connected to two switch ports or to be deployed on two separate networks to support a variety of redundant operation modes for mission critical applications.

In addition to audio and data deliveries via Q-LAN, the Page Stations are designed to receive power from the network via PoE (Power over Ethernet) or from an optional +24V DC power supply.

The Page Stations provide a front panel user interface that includes a 16, 8 or 4-button capacitive touch keypad depending on the model selected. The keypad offers visible feedback and audible cues, yet there are no buttons or membranes to wear out. Paging status, operational detail and alerts are also reported via illuminated status indicators and the station’s 240x64 monochrome graphics LCD.

Voice input is provided through a gooseneck dynamic paging microphone. The microphone is securely fastened to the unit, deterring theft or removal.

Page Station Models

Model	Microphone Type	Assignable Buttons
PS-1650G	Gooseneck	16
PS-1600G	Gooseneck	4
PS-800G	Gooseneck	8
PS-400G	Gooseneck	4

The rear panel of the Page Station offers a variety of auxiliary audio I/O interfaces and GPIO for expanding the capability of the page station. The auxiliary audio inputs can accommodate accessories such as a secondary microphone or other audio source. This feature-set permits a single page station (with an optional second microphone) to serve, for example both the kiosk and the jet-way entrance of an airport boarding area. The page stations include an auxiliary output that can drive an amplifier or powered loudspeaker even if the page station loses connection to the Q-Sys Core. The GPIO interface can be configured to use external events to affect paging operation or to affect external control systems.

The Page Station is designed with a flexible mounting system. The rear of the page station fits into a standard triple-gang U.S. electrical outlet box or it may be mounted directly to a rough cut opening in a wall or podium when an electrical “back box” solution is not required. The electrical box provides system designers with the option of pre-wiring the Page Station cabling prior to mounting the product. Please visit the QSC website for a dimensioned template before beginning installation.

PS-1650G | PS-1600G | PS-800G | PS-400G | Specifications

Q-Sys Public Address Functionality

Q-Sys Designer (version 2.0 and higher) includes the Public Address Router, a suite of functions to support public address applications. Most of these functions may be deployed whether or not the Q-Sys system incorporates QSC Page Stations. Alternative interfaces such as touch screen controllers may also be used in conjunction with analog microphones. All of these functions are executed by the Q-Sys Core with no additional hardware "boxes" required.

Local backup paging (requires local amplification & loudspeaker) permits the station to function locally even if the core and network become unavailable.

Virtual Page Station supports the design of custom graphic or physical page station interfaces. It is used in conjunction with a microphone connected to an analog input and can support any number of preset page events or allow the user to create ad-hoc destination Zone Groups, etc.

The Design Administration Interface is provided to allow facility personnel to manage day to day changes to selected system settings without accessing the system design. Functions including security code changes, station / zone assignments and scheduling of pre-recorded messages may be made available to facility staff

A variety of Paging Logic functions are supported including:

- Source to zone routing
- Priority and interruption logic
- Queuing logic
- Page delay
- Preambles (such as chimes)
- Emergency paging priority and over-ride logic

Messaging capability includes the ability to record announcements and trigger playback of pre-recorded announcements. Multi-layer security is provided with pass-code access. A sophisticated Event Scheduler is provided that can be used to schedule pre-recorded announcements or to make changes to system parameters at pre-specified times.

Preliminary Specifications

Audio Channel Capacity	2 line inputs, 1 line output
Front Panel Controls	Paging Keypad: Capacitive touch keypad
Front Panel Indicators	Talk, Ready, Busy: Bi-color LEDs (red/green) Keypad button activity: Green LEDs LCD: 240 x 64 monochrome graphics display
Rear Panel Connectors	Q-Sys Network LAN A: RJ45 1000 Mbps only Q-Sys Network LAN B: RJ45 1000 Mbps only DC power +24V inlet: 2-pin Euro receptacle Line input: 3-pin Euro receptacle Line output: 3-pin Euro receptacle GPIO: 6-pin Euro receptacle
Line Voltage Requirements	IEEE 802.3af power over Ethernet (PoE) or +24V DC
Dimensions (HWD)	10.37" (26.4 cm) x 8.3" (21.1 cm) x 1.5" (3.8 cm)
Accessories Included	Hardware user manual, software CD, connector ship kit, warranty card.

Line Input

Dynamic Range	
Unweighted	> 115 dB
A-weighted	> 118 dB
Distortion (20 Hz - 20 kHz, all sensitivities)	
+4 dBu (max)	< 0.009% THD+N
2 dB below clip	< 0.009% THD+N
Crosstalk (20 Hz - 20 kHz)	
Inter-channel (max)	> 75 dB
Inter-channel (typical)	> 90 dB
Intra-channel (max)	> 85 dB
Intra-channel (typical)	> 100 dB
Frequency Response	
20 Hz - 20 kHz (max)	± 0.5 dB
20 Hz - 20 kHz (typical)	± 0.2 dB
Input Impedance	
Balanced (nominal)	10k ohms
Unbalanced (nominal)	10k ohms
Common Mode Rejection	
20 Hz - 20 kHz (max)	> 54 dB
20 Hz - 20 kHz (typical)	> 60 dB
Input Sensitivities	Vrms: 1.5, 3, 9, 18 dBu: 5.7, 11.8, 21.3, 27.3 dBv: 3.5, 9.5, 19.1, 25.1

Line Output

Dynamic Range	
Unweighted	> 112 dB
A-weighted	> 115 dB
Crosstalk (20 Hz - 20 kHz)	
Inter-channel (max)	> 75 dB
Inter-channel (typical)	> 90 dB
Intra-channel (max)	> 85 dB
Intra-channel (typical)	> 100 dB
Mute	Infinite attenuation



1675 MacArthur Boulevard • Costa Mesa, CA 92626 • Ph: 800/854-4079 or 714/957-7100 • Fax: 714/754-6174



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