DATA SHEET
CAMBRIDGE Qt X 800/800D
SOUND MASKING CONTROL MODULE





The Cambridge Qt™ X 800/800D control module is a sound masking generator, controller, third octave band equalizer and amplifier, with two auxiliary audio inputs to allow for distribution of audio from paging controllers and/or (background) music players. The Qt X 800/800D controls sound masking speakers/emitters in both direct-field and indirect (in-plenum) installations—or a mix of both. Each of the eight amplified output speakers/emitters can be independently adjusted for masking and aux audio levels and spectra. When multiple Qt X controllers are included in a single system audio inputs can be shared across all controllers via AVB or Dante (800/D).

FEATURES

- Compatible with DynasoundPro™ loudspeakers and emitters
- Supports up to eight zones
- AVB or Dante (800/D) media network
- Two audio inputs for paging and music
- Contact closure integrates with fire alarm systems
- Front panel with LCD
- Panel lock via software control
- Auto-ramping
- Event scheduling
- Adjustable equalizer for masking and audio inputs
- Eight included non-correlated sound masking audio sources (one for each output)
- PoE Powered with optional 48V dc input
- Built-in clock with system NTP support
- Plenum mount bracket included, optional wall or rack mount bracket also available
- Dual network ports (media / control)
- Third-party control API/Ethernet
- CE marked, UL listed, and RoHS compliant
- Met Works with WELL licensing criteria for sound masking
- Covered by Biamp Systems' five-year warranty
- Manufactured in the U.S.A.
- TAA compliant
- GSA eligible
- Meets UL 2043 requirements for installation in air handling spaces

ARCHITECTS & ENGINEERS SPECIFICATION

The network sound masking processor shall be a Qt X 800. The unit shall be designed and approved for installation above suspended ceilings or in open structure environments. The unit shall be PoE and AVB or Dante capable. The unit shall be capable of providing eight independent amplifier channels, designed to power and independently control up to eight DynasoundPro sound masking speakers. The unit shall be capable of time-of-day masking level control; per-zone settings shall be available for day/night levels and start times, ramping interval, and weekday/Sat/Sun behavior. Each controller shall include eight non-correlated sound masking generators to minimize comb filtering between speakers. Units that do not support individual speaker control or are designed to control speakers in groups of two or more ganged speakers are not acceptable. The unit shall be designed to operate with industry standard PoE network switches. Units that require proprietary network switches and hardware are not acceptable. The unit shall meet all requirements of Underwriters Laboratories, the US and Canadian National Electrical Codes, FCC Part 15, and all pertinent UK and EU codes. The controller shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The controller shall be Qt X 800/800D.

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Drawings and product details are for information and/or illustrative purposes only, and may vary. Please contact your local Memtech representative for the most current product information.

Qt X 800/800D SPECIFICATIONS

Output Equalization	
Sound Masking (100Hz – 10kHz):	ISO 1/3 Octave Bands
Music/Paging (125Hz – 8kHz):	ISO 1/3 Octave Bands
Number of Non-Correlated Masking Sources	8
Masking Level Adjustment:	0.5dB steps
Audio Inputs	
Input Connector Type:	Captive Screw Terminal
Number of Inputs:	2 (Stereo or Mono)
Input Level:	+24dBu (12.3VRMS max)
Input Gain Range:	6dB steps
Input Level Adjustment:	1dB steps
Input Impedance:	8kΩ
Remote Control	
Connector Type:	Captive Screw Terminal
Input Type:	Contact Closure (Normally Open)
Number of Inputs:	2
Output Type:	Logic Status (5VDC)
Number of Outputs:	2 2 Channels GPIO
Audio Outputs	
Output Connector Type:	Captive Screw Terminal
Number of Outputs:	8
Nominal Output Impedance:	4Ω

Power PoE:	PoE (IEEE 802.3at) Connected on Network position 1
Power Optional DC	48V dc @ 1Amp (max)
Included Accessories:	Plenum T-bar mount with wire hanger positions
Overall Dimensions	
Height:	3.5 inches (89mm)
Width:	14 5/8 inches (371.5mm)
Depth:	3.8 inches (97mm)
Weight:	2.7 lbs (1.2 kg) (without mounting bracket installed)
Environmental:	
Ambient Operating Temperature Range:	40 - 90° F (4 – 32° C)
Humidity:	0-95% relative humidity (non-condensing)
Altitude:	0-6,600 ft (0-2000m) MSL
Compliance:	
	FCC Part 15B (USA) UL Listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe)

[1] Specifications based on use of Qt Emitters / Qt Active Emitter array and based on published layout practices

Qt X 800/800D BACK PANEL



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