

DATA SHEET

CAMBRIDGE Qt X 600/600D

SOUND MASKING CONTROL MODULE



The Cambridge Qt™ X 600/600D 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 600/600D controls up to 6 zones of Qt Standard or Active emitters. The Qt X 600/600D control module is a compact six-zone networkable controller suitable for installations of up to 72,000 square feet (6,690 m²). Each zone can be independently adjusted for masking and aux audio levels and spectra. When multiple controllers are included in a single system audio inputs can be shared across all controllers via AVB or Dante (600/D).

FEATURES

- Compatible with Qt Standard emitters and Qt Active emitters.
- Supports up to 6 zones
- AVB or Dante (600/D) media network
- 2 audio inputs for paging and music
- Contact closure integrates with fire alarm systems
- Front panel with LCD
- Front Panel Lock (via software control)
- Auto ramping
- Event scheduling
- Adjustable equalizer for masking and audio inputs
- 4 non-correlated sound masking audio sources per zone
- Built-in clock with system NTP support
- Wall mount bracket included, optional rack mount bracket also available
- Dual network ports (media / control)
- Web interface control by any web-enabled device
- 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

ARCHITECTS & ENGINEERS SPECIFICATION

The controller shall consist of all electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronic packages above ceilings are not acceptable. The controller shall permit password protected access for control and monitoring via LAN/browser interface. The controller shall provide six zones and shall be sufficient to generate sound masking, audio control and audio power for up to 72,000 square feet (6,690 m²) of coverage. 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 audio output shall provide 4 non-correlated channels of masking noise to minimize comb filtering. 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 5 years. The controller shall be Qt X 600/600D.

ACTIVE EMITTERS		Audio Inputs	
Max Emitter/Device Capacity:	50 Qt Active Emitters per cable run	Input Connector Type:	Captive Screw Terminal
Max Emitter Cabling Distance:	800 feet (243m) per cable run	Number of Inputs:	2 (Mono)
Frequency Response¹		Input Level:	+24dBu (12.3VRMS max)
Sound Masking:	125Hz to 6.3kHz	Input Gain Range:	6dB steps
Music/Paging:	115Hz to 12kHz	Input Level Adjustment:	1dB steps
SPL¹		Input Impedance:	8kΩ
Minimum Masking SPL (@ 1m):	30dBA	Phantom Power:	+48VDC (7mA/input)
Maximum Masking SPL (@ 1m):	55dBA	Remote Control	
Maximum Music/Paging SPL (@ 1m):	74dBA	Connector Type:	Captive Screw Terminal
Equalization		Input Type:	Contact Closure (Normally Open)
Sound Masking (125Hz - 6.3kHz):	ISO 1/3 Octave Bands	Number of Inputs:	2
Music/Paging (200Hz - 8kHz):	ISO 1/1 Octave Bands	Output Type:	Logic Status (5VDC)
		Number of Outputs:	2
			2 Channels GPIO
			6 RJ-45
STANDARD EMITTERS		Output Connections:	
Max Emitter/Device Capacity:	60 Qt Emitters per cable run	Minimum Output Impedance:	2Ω (per channel)
Max Emitter Cabling Distance:	1000 feet (300m) per cable run	Power Supply	
Frequency Response¹		Operating Voltage:	100-240VAC 50/60Hz
Sound Masking:	200Hz to 6.3kHz	Current Draw:	1.25A
Music/Paging:	200Hz to 10kHz	Output:	24VDC @ 2.7A
SPL¹		Max. Power Consumption (24VDC):	30W
Minimum Masking SPL (@ 1m):	30dBA	Included Accessories:	ACT Hole Saw
Maximum Masking SPL (@ 1m):	55dBA		Wall Bracket
Maximum Music/Paging SPL (@ 1m):	56dBA	Overall Dimensions	
Equalization		Height:	3.5 inches (89mm)
Sound Masking (200Hz - 6.3kHz):	ISO 1/3 Octave Bands	Width:	14 5/8 inches (371.5mm)
Music/Paging (200Hz - 8kHz):	ISO 1/1 Octave Bands	Depth:	3.8 inches (97mm)
		Weight:	4.2 lbs (1.9 kg) (with surface mount bracket installed)
Masking		Environmental:	
Number of Masking Zones:	6 (2 cable runs per zone)	Ambient Operating Temperature Range:	40 - 104° F (4 - 40° C)
Number of Non-Correlated Masking Sources:	4 per zone	Humidity:	0-95% relative humidity (non-condensing)
Masking Level Adjustment:	0.5dB steps	Altitude:	0-6,600 ft (0-2000m) MSL
		Compliance:	FCC Part 15B (USA)
			UL Listed (USA and Canada)
			CE Marked (Europe)
			RoHS Directive (Europe)

Qt X 600/600D BACK PANEL




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