DATA SHEET
Qt® 100
SOUND MASKING CONTROL MODULE



The Qt® 100 control module is a sound masking generator, controller and amplifier, with one auxiliary audio input to allow for distribution of audio from a paging controller or (background) music player. The Qt 100 control module is a compact one-zone controller suitable for installations of up to 12,000 square feet (1,115 m^2). The masking level can be adjusted from the unit's front panel. Auxiliary audio level is set via the front panel.

FEATURES

- 1 zone, up to 120 emitters
- 1 audio input for paging or music
- Contact closure integrates with fire alarm systems
- Front panel control with LCD
- Surface mount only
- CE marked, ETL 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 provide one zones and shall be sufficient to generate sound masking, audio control and audio power for up to 12,000 square feet (1,115 m^2) of coverage. Each audio output shall provide four uncorrelated channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 7 watts of power. 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, ETL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The controller shall be Qt® 100.

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 100 SPECIFICATIONS

Frequency Response[1]	
Sound Masking:	200Hz to 6.3kHz
Music/Paging:	200Hz to 10kHz
SPL[1]	
Minimum Masking SPL (@ 1m):	30dBA
Maximum Masking SPL (@ 1m):	60dBA
Maximum Music/Paging SPL (@ 1m):	62dBA
Masking	
Number of Non-Correlated Masking Sources:	4
Number of Masking Zones:	1 (2 cable runs per zone)
Masking Level Adjustment:	0.5dB steps
Max Emitter/Device Capacity:	60 Qt Emitters or Room Controls per cable run
Max Emitter Cabling Distance:	1000 feet (300m) per cable run
Audio Inputs	
Input Connector Type:	Captive Screw Terminal
Number of Inputs:	1 (Stereo or Mono)
Input Level:	+4dBu (2VRMS max)
Input Level Adjustment:	1dB steps
Input Impedance:	5kΩ
Remote Control	
Connector Type:	Captive Screw Terminal
Input Type:	Contact Closure (Normally Open)
Number of Inputs:	1
Output Type:	Logic Status (5VDC)
Number of Outputs:	1

Output Connections:	2 RJ-45
Minimum Output Impedance:	2Ω (per channel)
Power Supply	
Operating Voltage:	100-240VAC 50/60Hz
Current Draw:	0.6A
Output:	24VDC @ 1A
Max. Power Consumption (24VDC):	7W
Input Connector:	Captive Screw Terminal & Coax Power Plug (center pin positive)
Included Accessories:	ACT Hole Saw
Overall Dimensions	
Height:	3.5 inches (89mm)
Width:	7 inches (179mm)
Depth:	0.875 inches (23mm)
Weight:	6 oz. (170g)
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)
	ETL Listed (USA and Canada)
	CE Marked (Europe)
	RoHS Directive (Europe)
	Green Spec Listed

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

OPTIONAL ACCESSORIES

DESCRIPTION	SKU
Hole Saw ACT	HS-ACT
Hole Saw Drywall	HS-DW
10 ft Plenum-Rated Cable	CC-10- (B=Black / W = White)
25 ft Plenum-Rated Cable	CC-25- (B=Black / W = White)
50 ft Plenum-Rated Cable	CC-50- (B=Black / W = White)
75 ft Plenum-Rated Cable	CC-75- (B=Black / W = White)
100 ft Plenum-Rated Cable	CC-100- (B=Black / W = White)
Room Control (White)	Qt-RC3
Power Supply	PS-4
4-Pack of Qt Emitters, 16 ft cables	E-A-W-16-4 (E-A-B-16-4 for Black)
4-Pack of Qt Emitters, 30 ft cables	E-A-W-30-4 (E-A-B-30-4 for Black)

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