

**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<sup>2</sup>). 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, UL listed, and RoHS compliant
- 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<sup>2</sup>) 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, UL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The controller shall be Qt® 100.

## Qt 100 SPECIFICATIONS

<b>Frequency Response<sup>1</sup></b>		<b>Output Connections:</b>	2 RJ-45
<b>Sound Masking:</b>	200Hz to 6.3kHz	<b>Minimum Output Impedance:</b>	2Ω (per channel)
<b>Music/Paging:</b>	200Hz to 10kHz	<b>Power Supply</b>	
<b>SPL<sup>1</sup></b>		<b>Operating Voltage:</b>	100-240VAC 50/60Hz
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Current Draw:</b>	0.6A
<b>Maximum Masking SPL (@ 1m):</b>	60dBA	<b>Output:</b>	24VDC @ 1A
<b>Maximum Music/Paging SPL (@ 1m):</b>	62dBA	<b>Max. Power Consumption (24VDC):</b>	7W
<b>Masking</b>		<b>Input Connector:</b>	Captive Screw Terminal & Coax Power Plug (center pin positive)
<b>Number of Non-Correlated Masking Sources:</b>	4	<b>Included Accessories:</b>	ACT Hole Saw
<b>Number of Masking Zones:</b>	1 (2 cable runs per zone)	<b>Overall Dimensions</b>	
<b>Masking Level Adjustment:</b>	0.5dB steps	<b>Height:</b>	3.5 inches (89mm)
<b>Max Emitter/Device Capacity:</b>	60 Qt Emitters or Room Controls per cable run	<b>Width:</b>	7 inches (179mm)
<b>Max Emitter Cabling Distance:</b>	1000 feet (300m) per cable run	<b>Depth:</b>	0.875 inches (23mm)
<b>Audio Inputs</b>		<b>Weight:</b>	6 oz. (170g)
<b>Input Connector Type:</b>	Captive Screw Terminal	<b>Environmental:</b>	
<b>Number of Inputs:</b>	1 (Stereo or Mono)	<b>Ambient Operating Temperature Range:</b>	40 - 90° F (4 - 32° C)
<b>Input Level:</b>	+4dBu (2VRMS max)	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>Input Level Adjustment:</b>	1dB steps	<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
<b>Input Impedance:</b>	5kΩ	<b>Compliance:</b>	FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe) ETL Listed Green Spec Listed
<b>Remote Control</b>			
<b>Connector Type:</b>	Captive Screw Terminal		
<b>Input Type:</b>	Contact Closure (Normally Open)		
<b>Number of Inputs:</b>	1		
<b>Output Type:</b>	Logic Status (5VDC)		
<b>Number of Outputs:</b>	1		

<sup>1</sup> 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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