

# DATA SHEET

## Qt® 600

### SOUND MASKING CONTROL MODULE



The Qt® 600 control module is a sound masking generator, controller, third octave band equalizer and amplifier, with two aux audio inputs to allow for distribution of audio from paging controllers and/or (background) music players. The Qt 600 control module is a compact six zone networkable controller suitable for installations of up to 72,000 square feet (6,689 m<sup>2</sup>). Each zone can be independently adjusted for masking and aux audio levels and spectra. Levels can be adjusted from the unit's front panel or from a remote desktop leveraging the unit's network connectivity and browser based GUI.

#### FEATURES

- Compatible with Qt Emitters or Qt Active Emitters
- Supports up to 6 zones
- 2 audio inputs for paging and music
- Contact closure integrates with fire alarm systems
- Front panel with LCD
- Panel lock (hardware)
- Auto ramping
- Time-of-day scheduling
- Adjustable equalizer for masking and audio inputs
- 4 non-correlated sound masking audio sources per zone
- Built-in clock with battery backup
- Wall mount bracket included, optional rack mount bracket also available
- Ethernet port
- Web interface control by any web-enabled device
- Third party control API/Ethernet
- 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 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 (6,689 m<sup>2</sup>) 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 uncorrelated channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 27 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® 600.

## Qt 600 SPECIFICATIONS

<b>ACTIVE EMITTERS</b>		<b>Audio Inputs</b>	
<b>Max Emmitter/Device Capacity:</b>	50 Qt Active Emitters per cable run	<b>Input Connector Type:</b>	Captive Screw Terminal
<b>Max Emmitter Cabling Distance:</b>	800 feet (243m) per cable run	<b>Number of Inputs:</b>	2 (Stereo or Mono)
<b>Frequency Response<sup>1</sup></b>		<b>Input Level:</b>	+4dBu (2VRMS max)
<b>Sound Masking:</b>	200Hz to 6.3kHz	<b>Input Level Adjustment:</b>	1dB steps
<b>Music/Paging:</b>	115Hz to 12kHz	<b>Input Impedance:</b>	5k $\Omega$
<b>SPL<sup>1</sup></b>		<b>Remote Control</b>	
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Connector Type:</b>	Captive Screw Terminal
<b>Maximum Masking SPL (@ 1m):</b>	55dBA	<b>Input Type:</b>	Contact Closure (Normally Open)
<b>Maximum Music/Paging SPL (@ 1m):</b>	74dBA	<b>Number of Inputs:</b>	2
<b>Equalization</b>		<b>Output Type:</b>	Logic Status (5VDC)
<b>Sound Masking (125Hz - 6.3kHz):</b>	ISO 1/3 Octave Bands	<b>Number of Outputs:</b>	1
<b>Music/Paging (200Hz - 8kHz):</b>	ISO 1/1 Octave Bands	<b>Output Connections:</b>	12 RJ-45
<b>STANDARD EMITTERS</b>		<b>Minimum Output Impedance:</b>	2 $\Omega$ (per channel)
<b>Max Emmitter/Device Capacity:</b>	60 Qt Emitters per cable run	<b>Power Supply</b>	
<b>Max Emmitter Cabling Distance:</b>	1000 feet (300m) per cable run	<b>Operating Voltage:</b>	100-240VAC 50/60Hz
<b>Frequency Response<sup>1</sup></b>		<b>Current Draw:</b>	0.9A
<b>Sound Masking:</b>	125Hz to 6.3kHz	<b>Output:</b>	24VDC @ 1.5A
<b>Music/Paging:</b>	200Hz to 10kHz	<b>Max. Power Consumption (24VDC):</b>	27W
<b>SPL<sup>1</sup></b>		<b>Included Accessories:</b>	
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	ACT Hole Saw	
<b>Maximum Masking SPL (@ 1m):</b>	55dBA	Wall Bracket	
<b>Maximum Music/Paging SPL (@ 1m):</b>	56dBA	<b>Overall Dimensions</b>	
<b>Equalization</b>		<b>Height:</b>	3.5 inches (89mm)
<b>Sound Masking (200Hz - 6.3kHz):</b>	ISO 1/3 Octave Bands	<b>Width:</b>	13.5 inches (343mm)
<b>Music/Paging (200Hz - 8kHz):</b>	ISO 1/1 Octave Bands	<b>Depth:</b>	3.8 inches (97mm)
<b>Masking</b>		<b>Weight:</b>	3.0 lbs (1.4kg)
<b>Number of Masking Zones:</b>	6 (2 cable runs per zone)	<b>Environmental:</b>	
<b>Number of Non-Correlated Masking Sources:</b>	4 per zone	<b>Ambient Operating Temperature Range:</b>	40 - 90° F (4 - 32° C)
<b>Masking Level Adjustment:</b>	0.5dB steps	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
		<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
		<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	

<sup>1</sup> Specifications based on use of Qt Emitters / Qt Active Emmitter array and based on published layout practices

## Qt 600 BACK PANEL



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