

DATA SHEET

Qt® 300

SOUND MASKING CONTROL MODULE



The Qt® 300 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 300 control module is a compact three-zone networkable controller suitable for installations of up to 36,000 square feet (3,345 m²). 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 3 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

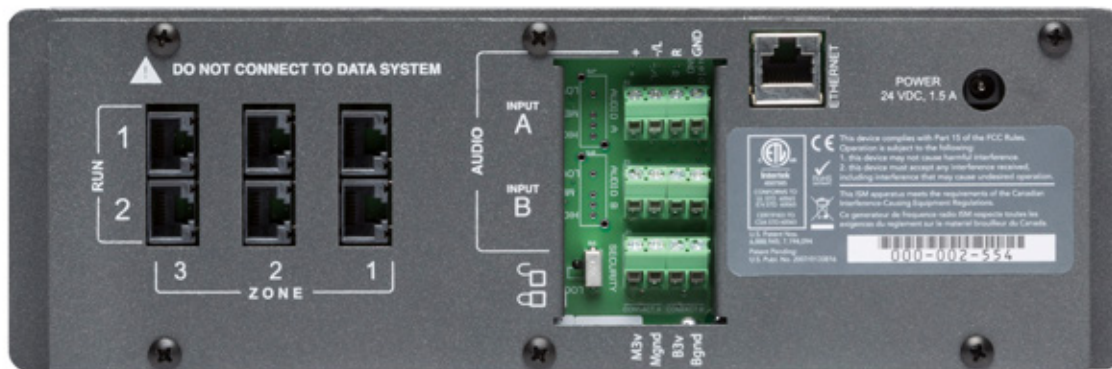
The controller shall consist of all electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronic packages above ceilings are not acceptable. The controller shall permit password protected access for control and monitoring via LAN/browser interface. The controller shall provide three zones and shall be sufficient to generate sound masking, audio control and audio power for up to 36,000 square feet (3,345 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 incoherent channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 12 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® 300.

Qt 300 SPECIFICATIONS

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 (Stereo or Mono)
Frequency Response¹		Input Level:	+4dBu (2VRMS max)
Sound Masking:	200Hz to 6.3kHz	Input Level Adjustment:	1dB steps
Music/Paging:	115Hz to 12kHz	Input Impedance:	5kΩ
SPL¹		Remote Control	
Minimum Masking SPL (@ 1m):	30dBA	Connector Type:	Captive Screw Terminal
Maximum Masking SPL (@ 1m):	55dBA	Input Type:	Contact Closure (Normally Open)
Maximum Music/Paging SPL (@ 1m):	74dBA	Number of Inputs:	2
Equalization		Output Type:	Logic Status (5VDC)
Sound Masking (125Hz - 6.3kHz):	ISO 1/3 Octave Bands	Number of Outputs:	1
Music/Paging (200Hz - 8kHz):	ISO 1/1 Octave Bands	Output Connections:	6 RJ-45
STANDARD EMITTERS		Minimum Output Impedance:	2Ω (per channel)
Max Emitter/Device Capacity:	60 Qt Emitters per cable run	Power Supply	
Max Emitter Cabling Distance:	1000 feet (300m) per cable run	Operating Voltage:	100-240VAC 50/60Hz
Frequency Response¹		Current Draw:	0.6A
Sound Masking:	125Hz to 6.3kHz	Output:	24VDC @ 1.0A
Music/Paging:	200Hz to 10kHz	Max. Power Consumption (24VDC):	15W
SPL¹		Included Accessories:	ACT Hole Saw Wall Bracket
Minimum Masking SPL (@ 1m):	30dBA	Overall Dimensions	
Maximum Masking SPL (@ 1m):	55dBA	Height:	3.5 inches (89mm)
Maximum Music/Paging SPL (@ 1m):	56dBA	Width:	11 inches (279mm)
Equalization		Depth:	3.8 inches (97mm)
Sound Masking (200Hz - 6.3kHz):	ISO 1/3 Octave Bands	Weight:	1.5 lbs (0.68kg)
Music/Paging (200Hz - 8kHz):	ISO 1/1 Octave Bands	Environmental:	
Masking		Ambient Operating Temperature Range:	40 - 90° F (4 - 32° C)
Number of Masking Zones:	3 (2 cable runs per zone)	Humidity:	0-95% relative humidity (non-condensing)
Number of Non-Correlated Masking Sources:	4 per zone	Altitude:	0-6,600 ft (0-2000m) MSL
Masking Level Adjustment:	0.5dB steps	Compliance:	FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe) ETL Listed Green Spec Listed

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

Qt 300 BACK PANEL



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