

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 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 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 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 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

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|--|-------------------------------------|---|---|
| ACTIVE EMITTERS | | Audio Inputs | |
| Max Emmitter/Device Capacity: | 50 Qt Active Emitters per cable run | Input Connector Type: | Captive Screw Terminal |
| Max Emmitter 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: | 12 RJ-45 |
| STANDARD EMITTERS | | Minimum Output Impedance: | 2Ω (per channel) |
| Max Emmitter/Device Capacity: | 60 Qt Emitters per cable run | Power Supply | |
| Max Emmitter Cabling Distance: | 1000 feet (300m) per cable run | Operating Voltage: | 100-240VAC 50/60Hz |
| Frequency Response¹ | | Current Draw: | 0.9A |
| Sound Masking: | 125Hz to 6.3kHz | Output: | 24VDC @ 1.5A |
| Music/Paging: | 200Hz to 10kHz | Max. Power Consumption (24VDC): | 27W |
| 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: | 13.5 inches (343mm) |
| Equalization | | Depth: | 3.8 inches (97mm) |
| Sound Masking (200Hz - 6.3kHz): | ISO 1/3 Octave Bands | Weight: | 3.0 lbs (1.4kg) |
| 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: | 6 (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 Emmitter array and based on published layout practices

Qt 600 BACK PANEL



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