



BTQ-SG8



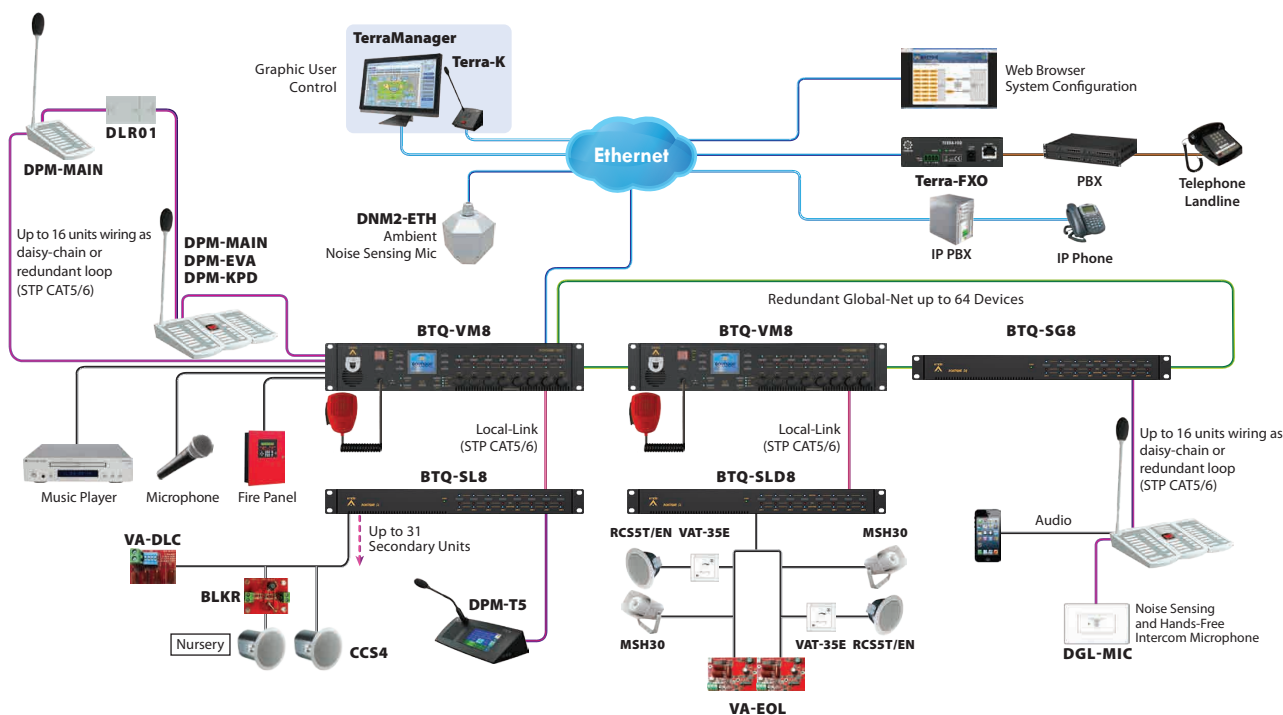
PAVA Secondary Global Unit, 8 Zone

The BTQ-SG8 PAVA secondary global unit is not only an extension unit for BTQ-VM4/8 PAVA controller but can also work independently without the BTQ-VM4/8. Up to 64 BTQ-VM4/8 or BTQ-SG8 can be networkable by full-redundancy-loop global-net via STP CAT5/6 cable (max. length 100m between units), multi-mode (2 km) or single-mode (20 km) fibre optic, even longer distance upon request.

The BTQ-SG8 is capable of handling 1000W speaker load per zone and 2000W max. per unit. It extends the number of input and output contacts available in the system, including 9 monitored EVAC inputs triggered either by dry contact or relay, 8 logic control inputs and 8 relay control outputs (configured by web browser). The two digital interfaces can connect up to 8 paging consoles or remote units for each, and be wired in a daisy chain or redundant loop. It is also equipped with a USB port for message or music files playing. In accordance with EN54-16 and UL2572, all BOUTIQUE system components and peripherals are monitored from paging microphones to loudspeaker lines. The speaker lines are monitored for short, open circuit and leakage. In addition, multiple volume attenuators can be installed on a monitored speaker lines without loopback cable. The BTQ-SG8 is also an eco-friendly product with extremely low power consumption (4W) during standby mode.

The system can easily setup from the LCD panel of BTQ-VM4/8, the advanced settings can be accessed by web browser such as volume, PEQ, audio routing, monitor and control, event and bell scheduler, paging with priority management (1~99 priority level) etc. Furthermore, the BOUTIQUE contains with fully digital audio mixing and internal message storage for up to 90 minutes, USB interface to play G.711, G.722, G.726, G.727, MP3 and WAV files.

APPLICATION EXAMPLE



BTQ-SG8

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FEATURES

- Both background music playing and paging can be simultaneously proceeded
- Easy integration with Terracom and IP-PBX via SIP protocol
- IP based music streaming and paging over LAN/WAN
- Extremely low power consumption during standby mode (4W)
- Volume attenuators can be installed on monitored speaker lines without loopback cable

LED INDICATORS

- Front**
 - 8 zone selected buttons and LEDs
 - 8 zone EVAC LEDs
 - 8 zone alert/page LEDs
 - Power LED
- Back**
 - 2 global-net port LEDs

INTERCONNECTIONS

- Back**
 - 24 VDC normal power input
 - 24 VDC backup power input
 - 9 monitored EVAC inputs
 - 8 speaker zone(A/B) outputs
 - 8 relay control outputs
 - 8 monitored logic control inputs
 - 2 digital ports for paging console
 - 1 fault relays & 1 EVAC relay output
 - AMP IN 1/2
 - AMP OUT 1/2 (100V)
 - 1 set of global-net port (optional)
 - 1 Ethernet port
 - USB 2.0 for messages and music files
 - 24 VDC output
 - RS232 for third party control
 - Device ID DIP switch

CERTIFICATIONS AND APPROVALS

Europe	Voice Alarm	EN54-16 (In process)
Europe	CE/EMI	EN55032: 2015 AC: 2016 Class A (In process)
Europe	CE/EMC	EN61000-3-2:2014 EN61000-3-3:2013 EN55020:2007/A11:2011 (In process)
Europe	CE/LVD	EN60065: 2014 (In process)
USA	Mass Notification Systems	UL2572 (Pending)
USA	Safety	UL60065 (Pending)

ELECTRICAL

- DC power input: 21 VDC ~ 29 VDC
- Power consumption
 - Full power: 15W
 - Standby mode: 4W

AUDIO CHARACTERISTICS

- A/D-D/A bit resolution: 24 bit
- Sampling rate: 48 kHz
- Frequency response: 20 Hz ~ 20 kHz (± 1 dB) @ 0 dBu
- THD+N: < 0.01 % @ 0 dB gain, 4 dBu (1 kHz) in
- EIN: < -80 dBu @ 0 dB gain
- SNR: > 80 dB
- Maximum output level: 17 dBu
- Crosstalk: > 93 dB @ 0 dB gain, 0 dBu (10 kHz) in
- Output impedance: 30 ohm

WATTAGE CAPACITY

- 1000W per zone/2000W (max.) per unit

NETWORK

- Max. global-net units: 64
- Max. digi-link remote units: 16
- Max. distance between global-net units: 100m (STP CAT5/6), 2 km (multi mode fiber optic) and 20 km (single mode fiber optic)
- Max. distance between digi-link remote units: 250m (STP CAT5/6)

LOUDSPEAKER OUTPUTS

- Number of zones: 8
- Number of loudspeaker lines: 16, A/B speaker lines per zone

EVAC INPUTS

- Voltage mode
 - Maximum voltage: 72 VDC
 - Active voltage: 18 VDC ~ 72 VDC
 - Inactive voltage: < 0.8 VDC
- Contact mode
 - Non-isolated analogue interfaces with internal pull-up to +5V by 10k ohm
 - Monitored analogue contact thresholds
 - Faulty-open circuit: > 2.7 VDC
 - Inactive voltage: 2 ~ 2.5 VDC
 - Active voltage: 1.35 ~ 1.7 VDC
 - Faulty-short circuit: < 0.6 VDC

RELAY OUTPUTS

- Maximum voltage: 100 VDC
- Maximum current: 0.5A

MECHANICAL

- Dimensions (W x H x D): 437 x 44 x 260 mm (17.2 x 1.7 x 10.2 inch)
- Weight: 2.6 kg (5.7 lbs)
- Mounting: 19" 1U rack
- Colour: RAL 7016

ENVIRONMENTAL

- Operating temperature: -5 °C ~ +55 °C (+23 °F ~ +131 °F)
- Storage temperature: -40 °C ~ +70 °C (-40 °F ~ +158 °F)
- Relative humidity: 20% to 95%
- Air pressure: 600 to 1100 hPa
- Heat dissipation: 51 BTU/hr

BTQ-SG8

PAVA Secondary Global Unit,8 Zone

Ordering Information							
Model No.	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Description of Model
BTQ-VM	EOL Driver	Number of Zone	250W/500W	Wall Mount/ Rack Mount	Global Net Card	Region	PAVA Controller
BTQ-SG		8	N/A	N/A		N/A	PAVA Secondary Global Unit
BTQ-SL		N/A				PAVA Secondary Local Unit	
EOL Driver							
BTQ-VM	BTQ-SG	BTQ-SL					
✓	✓	✓	None				
✓	✓	✓		D	EOL Driver		
Number of Zone							
✓	–	–	4				
✓	✓	✓	8				
250W/500W							
✓	–	–	25				
✓	–	–	50				
Wall Mount or Rack Mount							
✓	–	–	None				
✓	–	–	W1				
✓	–	–	W2				
Global-Net Card							
✓	✓	–	None				
✓	✓	–	RR				
✓	✓	–	MR				
✓	✓	–	SR				
✓	✓	–	RM				
✓	✓	–	RS				
✓	✓	–	MM				
✓	✓	–	SS				
Region							
✓	–	–	220~240 VAC Power, Amp Out 100V/50V/8ohm				
✓	–	–	U				
✓	–	–	T				

Model Examples

- BTQ-SG8: PAVA Secondary Global Unit,8Zone
- BTQ-SGD8: PAVA Secondary Global Unit,8Zone,EOL Driver
- BTQ-SGD8RS: PAVA Secondary Global Unit,8Zone,EOL DRV,N-RJ/FS