



BTQ-SG8

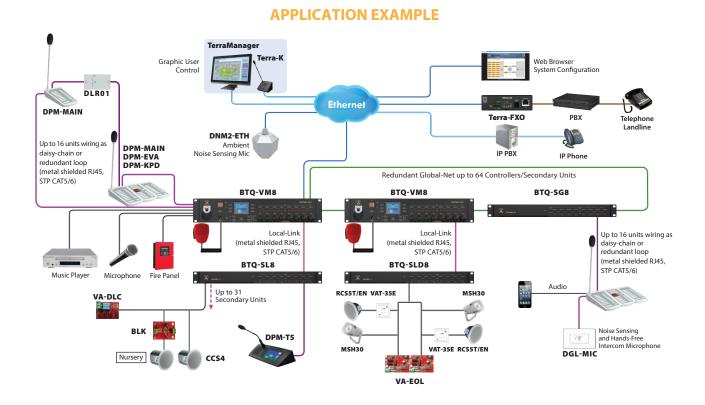


PAVA Secondary Global Unit,8 Zone

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 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, which can be programmed to trigger either by dry contact or voltage, logic control inputs and 8 relay control outputs (configured by web browser). The two digital interfaces can connect up to 16 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 EN 54-16 requirement, 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.





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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) Multiple volume attenuators can be installed on a monitored speaker lines without the need for a loopback cable. For branching speaker lines using the VA-EOL module, please order the "EOL driver" version of BTQ unit such as BTQ-VMD/SGD/SLD controller/secondary unit, in order to provide more power to drive the VA-EOL module.

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
- 1 USB 2.0 for configuration backup and message/music file
- 24 VDC output
- RS232 for third party control

Device ID DIP switch

CERTIFICATIONS AND APPROVALS

Europe	Voice Alarm	EN 54-16 (In process)
Europe	CE/EMI	EN 55032
Europe	CE/EMC	EN 55020 IEC 61000-4-2 IEC 61000-4-4
Europe	CE/LVD	EN 60065 (In process)
USA	Safety	UL 60065 (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



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WATTAGE CAPACITY

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

NETWORK

- Max. global-net units: 64
- Max. distance between global-net units: 100m (CAT5/6), 2 km (multi mode fiber optic) and 20 km (single mode fiber optic)
- Max. remotes units
 - Daisy-chain wiring
 - 16 DPM sets (DPM-MAIN + EVA + KPD) for each remote port
 - 32 DPM sets (DPM-MAIN + EVA + KPD) for 2 remote ports
 - Redundant loop: 16 DPM sets (DPM-MAIN + EVA + KPD)
- Max. DPM sets (MAIN + EVA + KPD) Max. 16 DPM sets
 - 1 DPM-MAIN attaches 1 DPM-EVA and 14 DPM-KPD
 - 1 DPM-MAIN attaches 15 DPM-KPD
 - Max. 128 keys for each DPM set
 - Connection via flat cable
- Max. communication distance between BTQ-SG8 and remote unit: 250m (shielded RJ45 connector, STP CAT5/6)
 - * The distance of cable length will directly affect the quantity and power requirement of remote unit.
 - 1. The longer the cable is, the less power the BTQ-SG8 can supply to the remote units.
 - 2. The more the remote units has cascaded in daisy-chain/redundant loop, the less power the BTQ-SG8 can supply to the remote units.

For example, if the cable length between the BTQ-SG8 and DPM-MAIN is within 120m, the DPM-MAIN can be powered by BTQ-SG8. If the cable length is beyond 120m, please connect the DLR01 digital loop repeater and PSU65-27 27VDC power adapter, ensuring the control signal and power supply of DPM-MAIN units are enough. To know the max. distance between BTQ-SG8 and DPM-MAIN unit(s) and the max. distance which the DPM-MAIN can be powered by DLR01 unit, please see BOUTIQUE user manual for details.

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)

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- 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		Number of Zone	250W/500W	Wall Mount/ Rack Mount		Region	PAVA Controller	
BTQ-SG	EOL Driver	8	N/A	N/A		N/A	PAVA Secondary Global Unit	
BTQ-SL					N/A	N/A	PAVA Secondary Local Unit	
				EOL	Driver			
BTQ-VM	E	BTQ-SG	BTQ-SL					
~		~	✓				None	
~		~	✓		D		EOL Driver	
Number of Zone								
~		-	_		4		4 Zone	
~		~	~		8		8 Zone	
				250W	/ 500W			
~		_		_			250W	
~				_			500W	
			V	Vall Mount	or Rack Mo	unt		
~		-	-		None		Rack Mount Type	
~				_			Wall Mount Type(Amp x 1)	
~				_			Wall Mount Type(Amp x 2)	
				Global	Net Card			
~		~	_				None	
~		✓			RR		RJ45(A)-(B)	
~		✓		_			Fiber Multi Mode(A)-RJ45(B)	
~		~		_			Fiber Single Mode(A)-RJ45(B)	
~	✓		_		RM		RJ45(A)-Fiber Multi Mode(B)	
~		✓		_			RJ45(A)-Fiber Single Mode(B)	
~		~		-			Fiber Multi Mode(A)-(B)	
~		✓		_			Fiber Single Mode(A)-(B)	
				Re	gion			
~		-	_			22	20~240 Vac,+48VDC Power,Amp Out 100V	
~		_	-		D	(for BTQ	-48VDC Power Only, Amp Out 100V (for BTQ-VM 250W AMP only, N/A for BTQ-VMW1/VMW2)	
~		-	-		U	1	100~120 Vac,+48VDC Power,Amp Out 70V	
~		-	-		Т		100~120 Vac,+48VDC Power,Amp Out 100V	
	Network Card Copper Pillar							

Network card				
Netcard,RJ45(A)-(B),excl Ass'y Pillar				
Netcard,Fiber Multi(A)-RJ45(B),excl Ass'y Pillar				
Netcard,Fiber Single(A)-RJ45(B),excl Ass'y Pillar				
Netcard,RJ45(A)-Fiber Multi(B),excl Ass'y Pillar				
Netcard,RJ45(A)-Fiber Single(B),excl Ass'y Pillar				
Netcard,Fiber Multi(A)-(B),excl Ass'y Pillar				
Netcard,Fiber Single(A)-(B),excl Ass'y Pillar				

Copper Pillar				
CP-PILLAR 15	Copper pillar 15 mm x 50			
CP-PILLAR 35	Copper pillar 35 mm x 50			



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