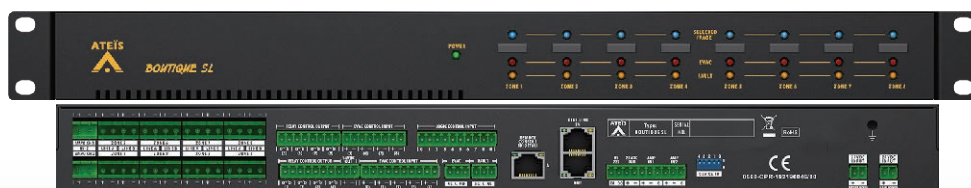**EN54 Certified**

BTQ-SL8

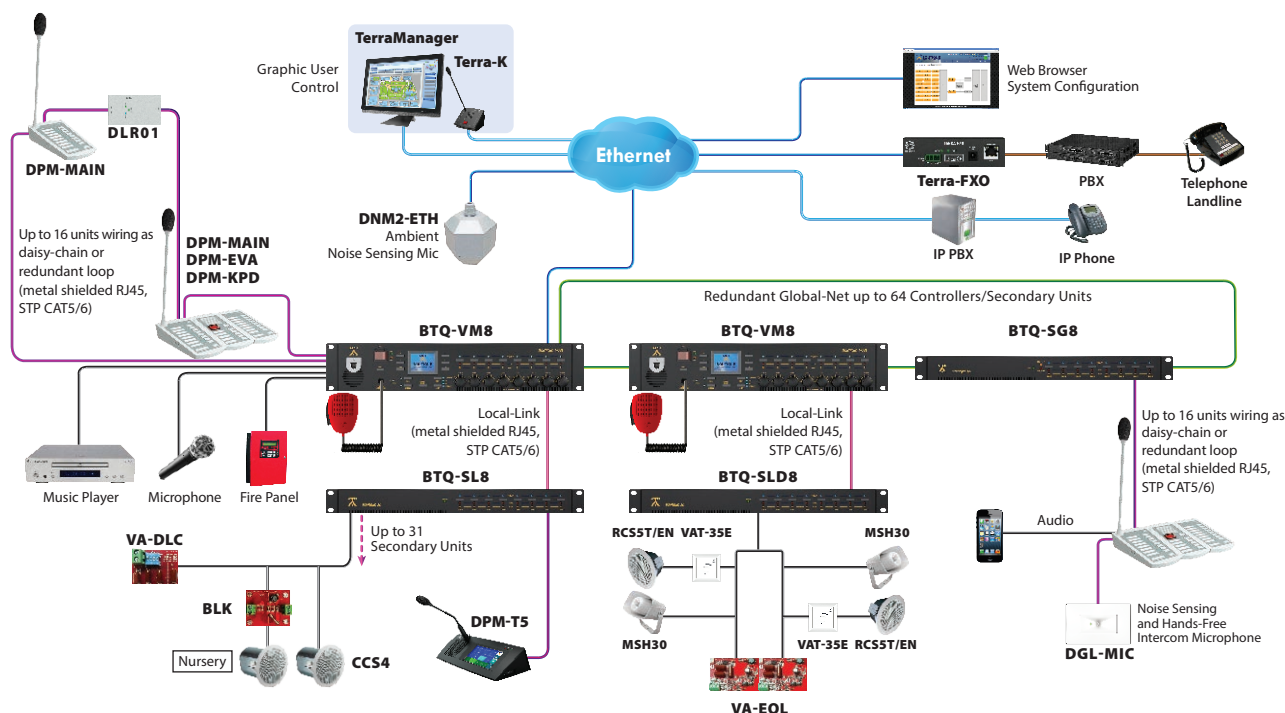## PAVA Secondary Local Unit, 8 Zones

The BTQ-SL8 is an extension unit for BTQ-VM4/VM8 PAVA controller. It increases the number of zones by a further 8 speaker zones. Up to 31 x BTQ-SL8 secondary local units can be added per controller via a dedicated digilink local network, providing with a maximum of 256 A/B zones. The BTQ-SL8 is linked to the main controller via STP CAT5/6 cable with metal shielded RJ45 connector (max. length 10m between units).

The BTQ-SL8 is capable of handling 1000W speaker load per zone and 2000W max. per unit. The BTQ-SL8 contains 9 monitored EVAC inputs, which can be programmed to trigger either by dry contact or voltage, 8 logic control inputs and 8 relay control outputs (configured by web browser). In addition, the BTQ-SL8 has a digital paging and control console interface. In accordance with EN 54-16 requirement, all BOUTIQUE system including paging microphones and loudspeaker lines are monitored. 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-SL8 is also an eco-friendly product with extremely low power consumption (3.5W) during standby mode.

FEATURES

- Extremely low power consumption during standby mode (3.5W)
- Third party control via RS232 or Ethernet
- 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.

APPLICATION EXAMPLE

ATEÏS Europe B.V.

Celsiusstraat 1 - 2652 XN Lansingerland (Rotterdam Region), Netherlands
Tel: +31 (0)10 2088690 | www.ateis-europe.com | info.eu@ateis.global

BTQ-SL8

PAVA Secondary Local Unit, 8 Zones

■ Front
- 8 zone selected buttons and LEDs
- 8 zone EVAC LEDs
- 8 zone alert/page LEDs
- Power LED

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
- 1 fault relays & 1 EVAC relay output
- 1 port for paging console
- AMP IN 1/2
- AMP OUT 1/2 (100V)
- 1 set of digilink loop port (BTQ-VM4/VM8 to BTQ-SL8 link)
- 24 VDC output
- RS232 for third party control
- Device ID DIP switch

CERTIFICATIONS AND APPROVALS

Europe	Voice Alarm	EN 54-16 (1438-CPR-0947)
Europe	CE/EMI	EN 55032
Europe	CE/EMC	EN 55020 IEC 61000-4-2 IEC 61000-4-4
USA	Safety	UL 60065 (In process)

ELECTRICAL
- ■ DC power input: 21 VDC ~ 29 VDC
- ■ Power consumption
  - Full power: 13.5W
  - Standby mode: 3.5W

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. local-net units: 32
- ■ Max. distance between local-net units: 10m (metal shielded RJ45 connector, STP CAT5/6)
- ■ Max. remote units: 16 DPM sets (DPM-MAIN + EVA + KPD) for single remote port
- ■ 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-SL8 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-SL8 can supply to the remote units.

  2. The more the remote units has cascaded in daisy-chain/redundant loop, the less power the BTQ-SL8 can supply to the remote units.

  For example, if the cable length between the BTQ-SL8 and DPM-MAIN is within 120m, the DPM-MAIN can be powered by BTQ-SL8. 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-SL8 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: A/B speaker lines per zone

RELAY OUTPUTS
- ■ Maximum voltage: 100 VDC
- ■ Maximum current: 0.5A

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

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 ºC ~ +55 ºC (+23 ºF ~ +131 ºF)
- ■ Storage temperature: -40 ºC ~ +70 ºC (-40 ºF ~ +158 ºF)
- ■ Relative humidity: 20% to 95%
- ■ Air pressure: 600 to 1100 hPa
- ■ Heat dissipation: 48 BTU/hr

ORDERING INFORMATION
- ■ BTQ-SL8: PAVA Secondary Local Unit, 8 Zones
- ■ BTQ-SLD8: PAVA Secondary Local Unit, 8 Zones, EOL Driver

  * Please order the BTQ-SLD8 secondary unit when using with VA-EOL module, in order to provide more power to drive the VA-EOL module.