IN PROCESS **PENDING**
Conforms To
UL STD 2572

EN54 16

Mass Notification Systems
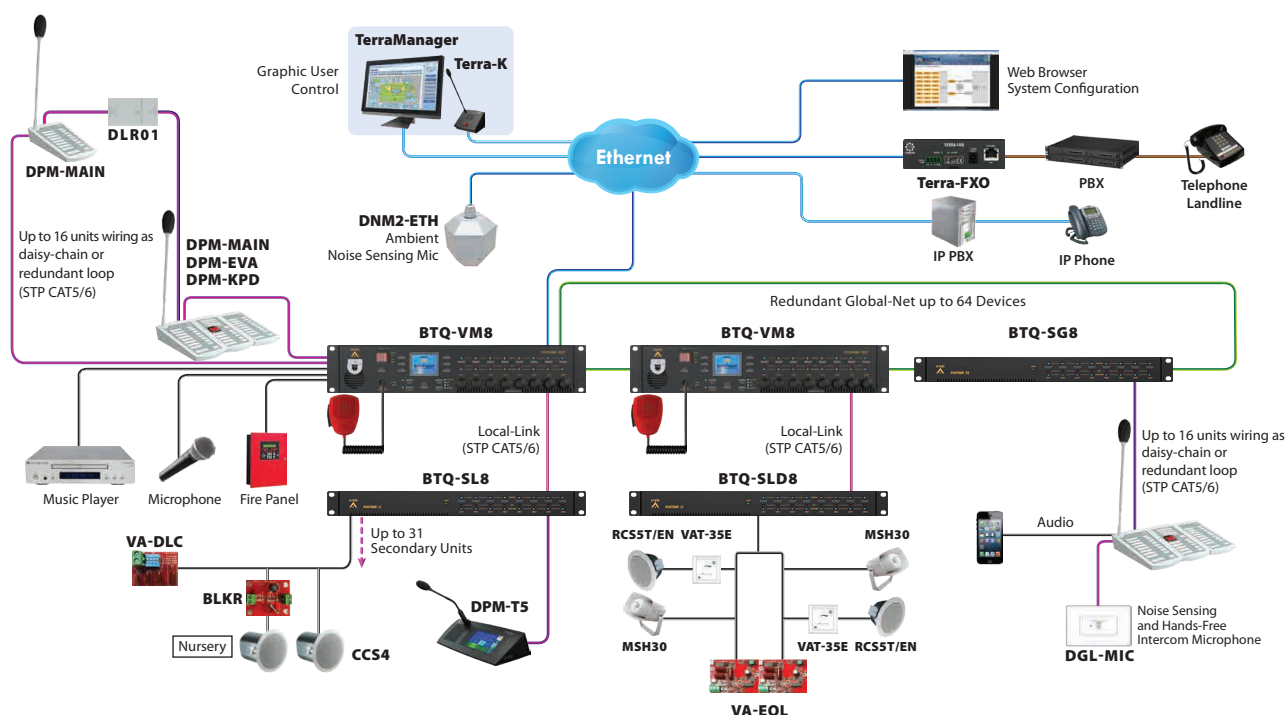
BTQ-SL8

PAVA Secondary Local Unit,8 Zone

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 unit via STP CAT5/6 cable with 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 triggered either by dry contact or relay, 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 EN54-16 and UL2572, 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)
- Volume attenuators can be installed on monitored speaker lines without loopback cable
- Third party control via RS232 or Ethernet

APPLICATION EXAMPLE

- ■ **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	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: 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. digi-link remote units: 8
- ■ Max. distance between local-net units: 10m (shielded RJ45 connector, STP CAT5/6)
- ■ Max. distance between digi-link remote units: 250m (shielded RJ45 connector, STP CAT5/6)

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,8Zone
- ■ BTQ-SLD8: PAVA Secondary Local Unit,8Zone,EOL Driver