

DPM



DPM-MAIN - Digital Redundant Loop Paging Microphone-Main
DPM-EVA - EVAC Unit with Speaker and Extra Buttons
DPM-KPD - Additional 8+1 Microphone Keypad

The DPM consists of three units: DPM-MAIN, DPM-EVA and DPM-KPD. The DPM-MAIN is the digital redundant loop paging microphone which provides 8 programmable buttons and a talk button. The DPM-KPD is an additional 8+1 microphone keypad used to expand keys of the DPM-MAIN, and the DPM-EVA is an EVAC unit with monitoring speaker and extra 5 programmable buttons.

Up to 16 paging consoles can be connected to BTQ-SL8, and 32 on BTQ-VM4/VM8/SG8; the wiring can be daisy-chain or in redundant loop. The DPM-MAIN can attach 1 DPM-EVA and 14 DPM-KPD or 1 DPM-MAIN can attach 15 DPM-KPD by the flat cable (max. 128 keys). The maximum communication cable length between the BTQ-VM/SL8/SG8 and DPM-MAIN is 250M (820 ft.) via STP CAT5/6 cable with metal shielded RJ45 connector. The distance of cable length will directly affect the quantity and power requirement of DPM-MAIN unit*.

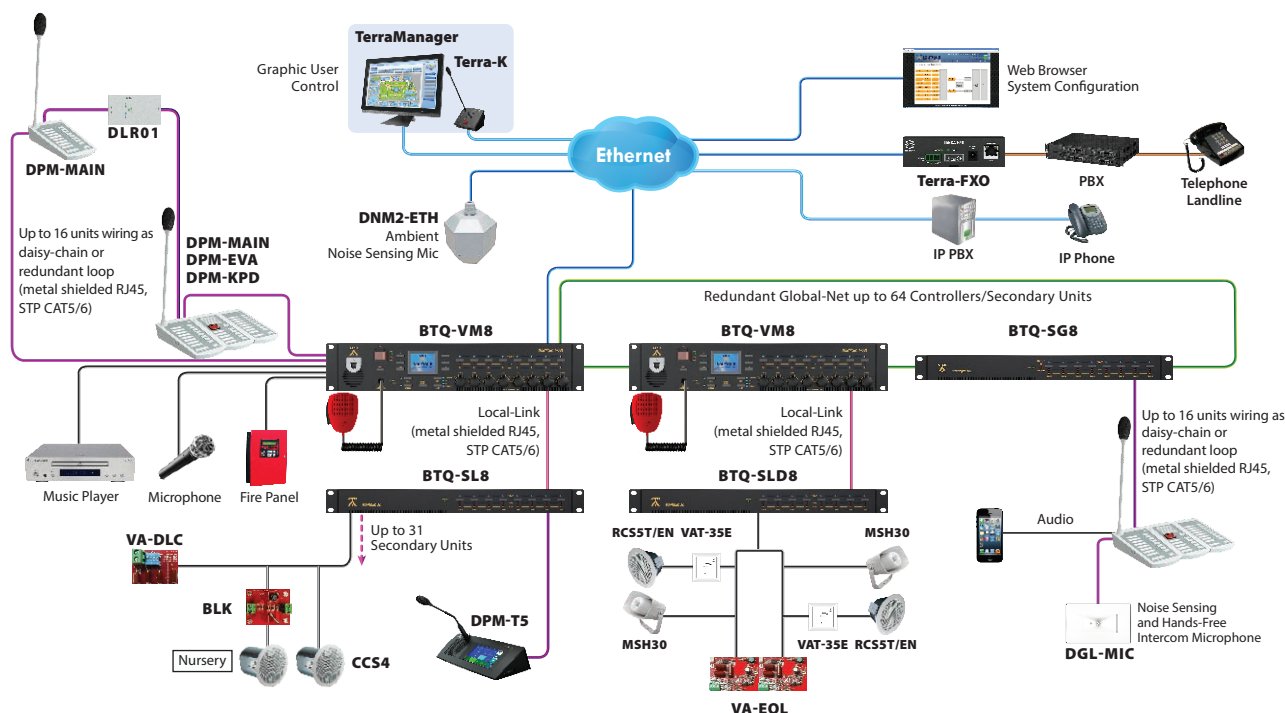
The programmable buttons can set to act as single or group zone selection, event triggering, recording, message playing button etc.. All the settings are configured via web browser. The Talk button can be programmed for PTT (push-to-talk) or latching mode as well. The DPM is also an eco-friendly product with extremely low power consumption (<1W) during standby mode.

* The distance of cable length will directly affect the quantity and power requirement of DPM-MAIN unit.

1. The longer the cable is, the less power the BTQ-VM/SL8/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-VM/SL8/SG8 can supply to the remote units.

Therefore, if the cable length between the BTQ-VM and DPM-MAIN is within 250m, the DPM-MAIN can be powered by BTQ-VM. If the cable length is beyond 250m, 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-VM/SL8/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.

APPLICATION EXAMPLE



DPM

DPM-MAIN: Digital Redundant Loop Paging Microphone-Main

DPM-EVA: EVAC Unit with Speaker and Extra Buttons

DPM-KPD: Additional 8+1 Microphone Keypad

FEATURES

DPM-MAIN

- Up to 16 paging consoles can be connected to BTQ-SL8, and 32 on BTQ-VM4/VM8/SG8; the wiring can be daisy-chain or in redundant loop
- Microphone capsule monitoring
- AGC (Automatic gain control) function

CONTROLS AND INDICATORS

- DPM-MAIN
 - Talk button (push-to-talk or latching mode)
 - 8 programmable buttons with individual status LED
 - Gooseneck paging microphone
 - Status LED (power, busy hold, talk, all-call and release all-call)
 - All/release button (select/deselect all zones)
 - Speaker & mic volume control
- DPM-KPD
 - 8 programmable buttons with individual status LED
 - Status LED (power, busy hold, talk, all-call and release all-call)
 - All/release button
- DPM-EVA
 - 5 programmable buttons with individual status LED
 - Monitored loudspeaker
 - Status LED (busy hold and fault)
 - EVAC button and reset button

INTERCONNECTIONS

- DPM-MAIN
 - 2 remote ports (metal shielded RJ45 connector, STP CAT5/6)
 - 2 x 3.5 mm mini-jack for earphone and microphone
- DPM-MAIN/DPM-EVA/DPM-KPD
 - Flat cable for the linking of DPM-MAIN/DPM-EVA/DPM-KPD

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 (In process)

ELECTRICAL

- DC power input: 21 VDC ~ 29 VDC
- Power consumption: full power/standby mode
 - DPM-MAIN: 1.8W/1W
 - DPM-EVA: .3.7W/0.3W
 - DPM-KPD: 1W/0.5W

AUDIO CHARACTERISTICS (GENERAL)

- A/D-D/A bit resolution: 24 bit
- Sampling rate: 48 kHz
- Frequency response: 20 Hz ~ 20 kHz (± 1 dB) @ 0 dBu
- SNR: > 85 dB
- THD+N: < 0.2 % @ 26 dB gain, -26 dBu (1 kHz) in
- Max. speaker SPL: 90 dBA @ 3m
- Max. mic SPL: 105 dBA @ 3m
- Capsule type: Electret condenser
- Capsule Sensitivity: -15 dBu/Pa @ 1 kHz
- Capsule directivity: Uni-directional
- Polar pattern: Cardioid

AUDIO CHARACTERISTICS (HEADSET-JACK)

- Maximum input level: -3 dBu
- Maximum output level: 2.5 dBu
- Input gain (fixed): 3 dB
- Input impedance: 2k ohm
- Output impedance: 25 ohm
- Delivering power: 150 mW

NETWORK

- Max. remotes per BTQ-SL8: 16 DPM sets (DPM-MAIN + EVA + KPD) for single remote port
- Max. remotes per BTQ-VM4/VM8/SG8
 - Daisy-chain wiring
 - 16 DPM sets (DPM-MAIN + EVA + KPD) for 1 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-VM/SL8/SG8 and DPM-MAIN: 250m (shielded RJ45 connector, STP CAT5/6)

* The distance of cable length will directly affect the quantity and power requirement of DPM-MAIN unit.

- The longer the cable is, the less power the BTQ-VM/SL8/SG8 can supply to the remote units.
- The more the remote units has cascaded in daisy-chain/redundant loop, the less power the BTQ-VM/SL8/SG8 can supply to the remote units.

Therefore, if the cable length between the BTQ-VM and DPM-MAIN is within 250m, the DPM-MAIN can be powered by BTQ-VM. If the cable length is beyond 250m, 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-VM/SL8/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.

MECHANICAL

- Dimensions (W x H x D)
 - DPM-MAIN base: 108 x 46 x 200 mm (4.3 x 1.8 x 7.9 inch)
 - DPM-MAIN with microphone: 108 x 319 x 200 mm (4.3 x 12.6 x 7.9 inch)
 - DPM-KPD/DPM-EVA: 96 x 46 x 200 mm (3.8 x 1.8 x 7.9 inch)
- Weight: DPM-MAIN/DPM-EVA/DPM-KPD: 0.5 kg (1.1 lbs)
- Colour: RAL 7035

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
 - DPM-MAIN: 0.87 BTU/hr
 - DPM-EVA: 0.76 BTU/hr
 - DPM-KPD: 0.02 BTU/hr

ORDERING INFORMATION

- DPM-MAIN: Digital Redundant Loop Paging Microphone-Main
- DPM-KPD: Additional 8+1 Microphone Keypad
- DPM-EVA: EVAC Unit with Speaker and Extra Buttons