IP-BASED PAGA SERVER

TCM-BGM9000Pro

Network Audio Paging Broadcasting Manager



DESCRIPTION

TCM-BGM9000Pro is the central server of the Techma IP-based hybrid PAGA (Public Address & General Alarm) system. It manages large-scale paging, multi-zone background music and scheduled or emergency announcements across multiple buildings and sites over a standard Ethernet or fiber-optic network, with no limit on transmission distance and no long analog speaker runs from a central amplifier.

Network amplifiers, IP speakers and pre-amplifiers can be placed anywhere the network reaches, and an existing analog PA system can be integrated rather than replaced. Authorized operators broadcast live or stored audio and edit programs from any client PC, while the server holds the program library and links paging to alarm, intercom, CCTV and third-party devices. Licensing is perpetual: 100 licenses are included by default, expandable up to 500.

FEATURES

- Gigabit Ethernet, 1000BASE-T (RJ45)
- TCP/IP, UDP, Multicast, SIP and RTP
- Multi-client user management
- Remote client operation
- E-Map & Device status monitoring dashboard
- Audio/video intercom with CCTV linkage
- 5 multi-track players for simultaneous content
- 12-channel equalizer & virtualizer
- Evacuation panel: emergency & quick pre-programmed audio messages
- Adhan by region & Timer-scheduled audio broadcast
- Audio Zone Controller and group alarm broadcast targeting
- I/O alarm linkage, HTTP API and MQTT
- Call audio recording
- Redundant failover system
- 1.5U, 19-inch rackmount form factor

OPTIONAL MODULES

Separate license

Early Warning System (EWS) · Fire & Gas Detection System (FGDS) · Access Control System (ACS) · IP-PBX · Nurse Calling Intercom

PHYSICAL & ENVIRONMENTAL

Operating temp.	-10 to +50 °C
Humidity	10 to 95% RH
Power supply	AC 220–240 V, 50/60 Hz
Dimensions	482 × 67 × 250 mm (W×H×D)
Weight	3.5 kg

SPECIFICATION

MAIN SYSTEM	
Processor	Intel® Core™ processor
Network	Gigabit Ethernet 1000BASE-T, RJ45
Protocols	TCP/IP, UDP, Multicast, SIP, RTP
User management	Multi-client user manager
Remote operation	Audio Client Manager
Licensing	Perpetual; 100 licenses by default, up to 500
Redundancy	Redundant failover: a standby server takes over automatically if the main server fails
PUBLIC ADDRESS SYSTEM	
Audio sources	Analog input, local MP3 files, virtual audio (Bluetooth, radio, YouTube) via Audio Client
Audio codecs	G.711u, G.711a, G.722
File formats	MP3, WAV, WMA
Frequency resp.	20 Hz – 17.5 kHz (±3 dB)
Call modes	Direct call, group/zone call, multicast call, SIP call
Broadcasting	BGM player, 5 multi-track players for different content simultaneously, 12-channel equalizer & virtualizer, Adhan by region & Timer-scheduled audio broadcast.
GENERAL ALARM SYSTEM	
Emergency Alarm	Emergency Evacuation Message Panel & quick pre-programmed audio messages
Alarm linkage	Alarm message broadcast, remote alarm, manual call point (emergency button), CCTV and VMS, I/O controller, SIP, API URL, third-party alarm devices

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