



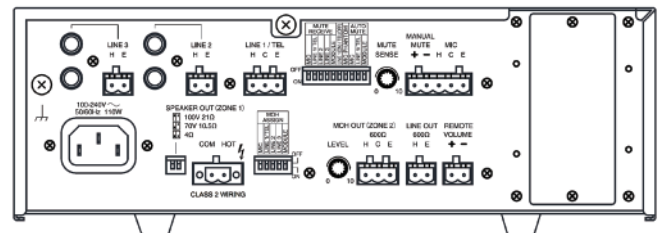
Digital Mixer Amplifier

BG-2240D/ BG-2480D



Digital Mixer Amplifier

The BG-2240D (240W) and BG-2480D (480W) are 5-input mixer amplifiers designed for background music distribution and general announcements in commercial spaces such as bars/restaurants, retail stores and hospitality facilities. They are each equipped with an MOH output that permits two independent zones when used in conjunction with an optional external power amplifier with a line level analog audio input. These digital mixer amplifiers are lighter, more efficient and cooler running than conventional amplifiers. Beyond these upgrades, the BG-2240D/BG-2480D have the same basic feature set as analog BG-2000 models, including: Dual balanced priority mic/line inputs, dual unbalanced line inputs for background music (BGM) sources, assignable 2nd zone/MOH output, front panel bass & treble controls, remote volume control port, assignable mute function and a module option slot which accepts any range of compatible 900 Series input & special function modules.



» KEY FEATURES

- 240W output @ 70V
- 480W output @ 4Ω, 70V
- Dual balanced priority mic/line inputs
- Dual unbalanced line inputs for BGM sources
- Rear panel-mounted DIP switches allow easy configuring of settings
- Provides auto/manual mute function with adjustable muting sensitivity
- Incorporates Remote volume control connection
- 2-channel broadcast capability together with zone 2 expansion capability in conjunction with BA-200 Series
- Tamper-proof, front-panel bass and treble controls are recessed to protect their settings
- Thermal protection circuitry prevents potential damage from excessive heat build-up
- AC Mains Circuit Breaker
- Supplied accessory security knobs for volume controls prevent unauthorized volume setting changes

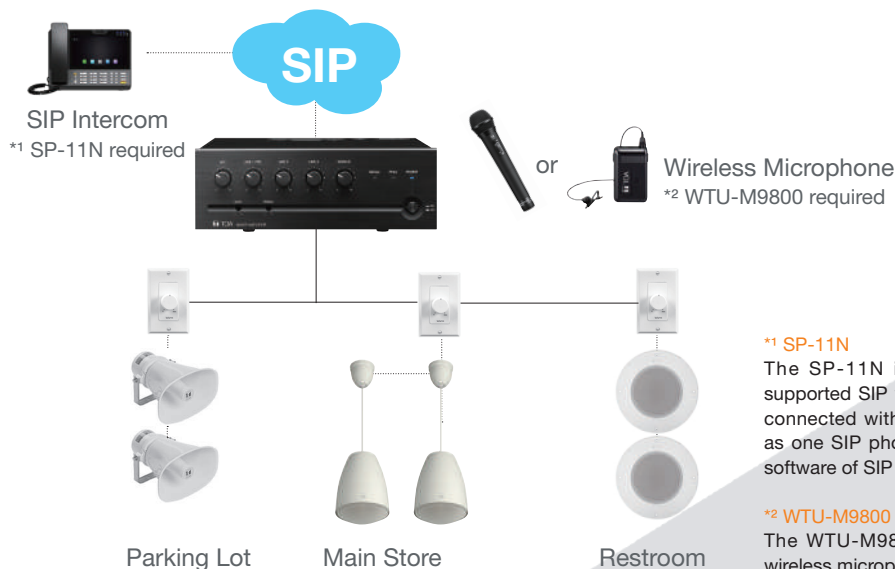
» OPTIONS

- Remote volume control port (AT-10K)
- Assignable mute function
- Module slot accepts optional 900 Series plug-in modules for custom system configurations
- MB-1000 Rack Mount Bracket
- 900 Series Input & Special Function Modules
- Volume attenuators



» SYSTEM EXAMPLE

Grocery Store System Example



*1 SP-11N

The SP-11N is a VoIP phone paging module supported SIP with Auto-answer function. It can be connected with IP network and directly registered as one SIP phone station on carious management software of SIP server.

*2 WTU-M9800

The WTU-M9800 is providing a truly integrated wireless microphone module for BG-2240D/2480D. It can be used with M band (506 - 538 MHz) of TOA's 5000 series hand-held or belt-pack transmitter. Up to 16 channels and save on installation costs, rack space, and shelf space.



» SPECIFICATIONS

		BG-2240D	BG-2480D
Power Source		120V AC, 60 Hz	100-240V AC, 50/60 Hz
Rated Output		240W	480W
Power Consumption		300W (rated output), 55W (based on cULus standards)	600W (rated output), 110W (on UL60065 standards)
Frequency Response		50Hz – 20kHz	
Total Harmonic Distortion		0.8% or less, at 1kHz, 1/3 rated output, LPF 20kHz	
Input		Mic: -60dB*, 600Ω, electronically balanced, removable terminal block Line 1: -10 dB*/TEL: -20 dB* Line 1/TEL: selectable, 10kΩ, electronically balanced, removable terminal block Line 2, 3: -10 dB*, 10 kΩ, unbalanced, removable terminal block or RCA jack, Module	
Output	Speaker	70V (21Ω) balanced, removable terminal block	4Ω, 70V (10.5Ω), 100V (21Ω), balanced, removable terminal block
	MOH	0 dB*, 600Ω, balanced, removable terminal block	
	Line	0 dB*, 600Ω, unbalanced, removable terminal block	
Output Regulation		2 dB or less, no load to full load (1kHz)	
Phantom Power		On/Off switch for Mic,+24V DC	
S/N Ratio		Mic: 60 dB or more, Line 1/TEL, Line 2, 3, Module: 73 dB or more (A-weighted, Tone Controls: Centered)	
Tone Control		Bass: ±10 dB at 100 Hz, Treble: ±10 dB at 10kHz	
Muting		Manual mute/Automatic mute	
Control		Mic gain control, Line 1/TEL gain control, Line 2 gain control, Line 3 gain control, Module: gain control, Bass tone control, Treble tone control, MOH out gain control, Mute control (Manual mute), Remote volume control, Mute sense control, Line 1/TEL selector switch, Phantom power switch (Mic), Auto mute switch (Mic, Line 1/TEL, Module), Mute receive switch (Mic, Line 1/TEL, Line 2, 3, Module), MOH assign switch (Mic, Line 1/TEL, Line 2, 3, Module), Power ON/OFF switch	
Indicator		Power LED, Signal level LED, Peak LED	
Operating Temperature		0 °C to 40 °C (32 °F to 104 °F)	
Finish		Panel: ABS resin, black; Case: Steel plate, black, paint	
Dimensions		264 (W) × 94.3 (H) × 267.3 (D) mm (10.39" × 3.71" × 10.52")	
Weight		3.5kg (7.72 lb)	3.5kg (7.7lb)
Accessory		Volume control cover: YA-920 × 5, Removable terminal plug (2 pins) × 4, Removable terminal plug (3 pins) × 2, Removable terminal plug (4 pins) × 1, Removable terminal plug (5 pins) × 1	
Option		Rack mounting brackets: MB-1000	



TOA Electronics, Inc

www.toaelectronics.com

www.toaelectronicsUSA.com

FREE DESIGN SERVICES

freedesign@toaelectronics.com

SALES GROUP

sales@toaelectronics.com

CUSTOMER SERVICE

orders@toaelectronics.com

PRODUCT SUPPORT

productsupport@toaelectronics.com