



Intelligent IP Network PA System Amplifier

M-9306/M-9312/M-9324/M-9336/M-9348/M-9366

User Manual



Thank you for choosing LYINTL public address system products.
Please read this manual carefully before using the devices.

Product Description

The M-9300 Series IP Network PA System Amplifier is a high-performance, rack-mounted audio amplifier designed for modern IP-based public address and paging systems. Available in multiple power outputs — 60W, 120W, 240W, 360W, 480W, and 660W — this series offers flexible solutions for commercial buildings, campuses, factories, transportation hubs, and more.

With advanced Class D amplifier circuitry, built-in DSP audio processing, and support for standard network protocols such as TCP/IP, UDP, and IGMP (multicast), the M-9300 Series delivers high-efficiency amplification and crystal-clear digital audio across LAN or WAN infrastructure.

Key Features

1U rack-mount design with premium black aluminum alloy panel for a sleek, professional appearance

Built-in Class D amplifier circuit ensures low heat, high efficiency, and reliable long-term operation

Integrated network audio decoder module, supporting 16-bit stereo CD-quality audio over IP

Multiple audio inputs: 3 Mic inputs (2 unbalanced + 1 balanced), 2 AUX line inputs, 1 AUX output for external amplifier expansion

Dual output modes: Constant voltage 100V and constant impedance 8–16 Ω speaker connections

Independent volume control for each channel with adjustable treble and bass EQ

Supports 100-level priority control, user permission management, and remote server authorization

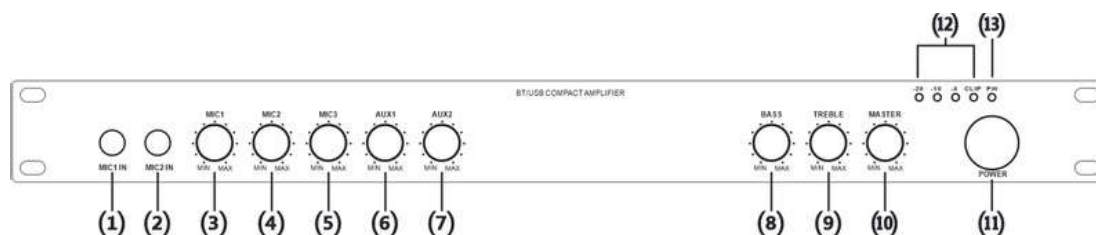
Compatible with DHCP and static IP configurations — seamless across routers, switches, bridges, 2G/3G/4G, or the Internet

Smart power supply (AC100–240V) with short-circuit, overload, and overheat protection

Global voltage compatibility and efficient switching power supply design

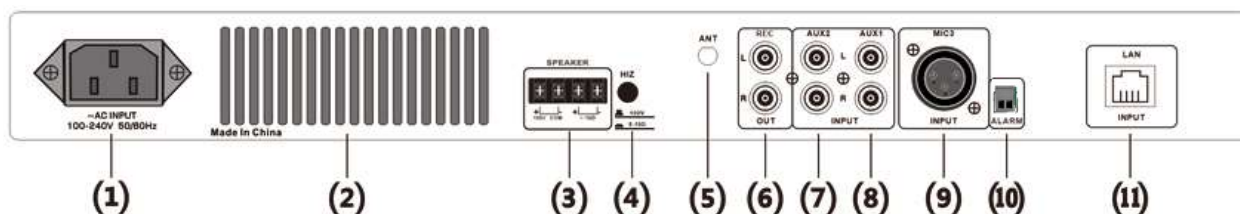
Designed for distributed IP network audio systems, ideal for scalable and centralized control

Front Panel



- | | | |
|----------------------------|-------------------------|-----------------------------|
| (1) MIC1 input | (2) MIC2 input | (3) MIC1 volume control |
| (4) MIC2 volume control | (5) MIC3 volume control | (6) AUX1 volume control |
| (7) AUX2 volume control | (8) Bass control | (9) Treble control |
| (10) Master volume control | (11) Power switch | (12) Signal indicator light |
| (13) Power indicator light | | |

Rear Panel

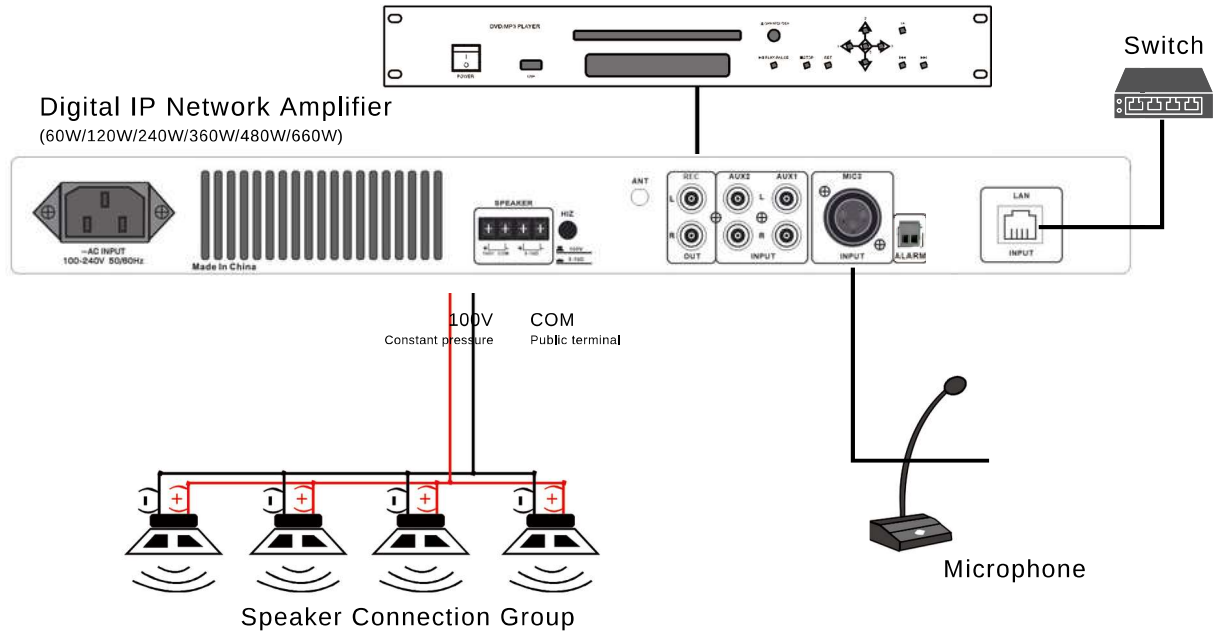


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|---|--|
| (1) AC 100-240V power input | (2) Heat dissipation port |
| (3) Fixed resistance 8-16 Ω, 100V output terminal | (4) Fixed resistance, fixed voltage switch |
| (5) 2.4GHz antenna port | (6) Auxiliary audio output port |
| (7) AUX2 input port | (8) AUX1 input port |
| (9) MIC3 input port | (10) Short circuit input (alarm trigger) |
| (11) Network input port (network device) | |

Specifications

Model Number	M-9306	M-9312	M-9324	M-9336	M-9348	M-9366
Rated Power	60W	120W	240W	360W	480W	660W
Serial Port	RJ45 network cable interface input					
Supported Protocols	TCP / IP,UDP					
Sampling Rate	8K~48KHz					
Audio Mode	16-bit stereo CD sound quality					
Output Mode	8-16 ohms(Ω) Constant resistance output					
	60W	100V(167 ohms(Ω)) Constant voltage output				
	120W	100V(84 ohms(Ω)) Constant voltage output				
	240W	100V(42 ohms(Ω)) Constant voltage output				
	360W	100V(28 ohms(Ω)) Constant voltage output				
	480W	100V(21 ohms(Ω)) Constant voltage output				
	660W	100V(15 ohms(Ω)) Constant voltage output				
Microphone Input	MIC1 / MIC2: 600ohms(Ω)10mV, non-equilibrium					
	MIC3: 600ohms(Ω)10mV, non-equilibrium					
Line Input	AUX1 / AUX2: LINE: 10K ohms(Ω)300mV, non-equilibrium					
Auxiliary Output	0.775V(0dB)					
Frequency Response	60Hz—20KHz(±3dB)					
Nonlinear Distortion	<0.5% at 1KHz, 1/3 of the rated output power					
Signal-to-Noise Ratio	LINE: >80dB, MIC: >65dB					
Output Adjustment Rate	<3dB, From static to full load operating conditions					
Tone Adjustment Range	Bass: 100Hz(±10dB), Treble: 10KHz(±10dB)					
Indicator Light	Power supply: PW, Level indicator: -20、-10、-3、CLIP					
Power Supply	AC100V~AC240V 50~60Hz					
Power Cord	(3×0.5mm²)×1.5M(standard)		(3×0.75mm²)×1.5M(standard)			
Power Consumption	90W	180W	360W	480W	720W	990W
Product Dimensions	480mm*200mm*45mm		480mm*280mm*45mm			
Packaging Dimensions	522mm*284mm*72mm		515mm*380mm*100mm			
Net Weight	2.3kg	2.7kg	3kg	3.2kg	3.4kg	3.8kg
Gross Weight	2.9kg	3.3kg	3.9kg	4.1kg	4.3kg	4.7kg

System Connection Diagram



Product Views



Specifications are subject to change without prior notice.

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