



M-6250

Technical Specifications



M-6250 Digital Matrix Amplifier

The M-6250 is a high-performance distribution amplifier purpose-built for installations that demand clean power delivery and seamless integration with external audio sources. It provides the backbone for robust whole-home audio systems, whether driving architectural speakers directly or extending existing Mirage installations.

Connectivity

Audio Outputs (8 Zones Total)	(6) Stereo Amplified Zone Outputs, (2) Pre-Amplified Outputs with Analog RCA
Audio Inputs (8 Total)	(4) Analog RCA (2) Digital Coax (2) Optical Toslink
Analog Output	Unbalanced, stereo RCA type, line level audio output
COAX	Stereo Coaxial, RCA type, SPDIF (PCM)
Optical	Toslink, PCM
LAN Connection	(1) 8-wire RJ45 with 2 LED indicators; 10/100 Mbps/sec BaseT Ethernet port; green LED indi- cates link status; yellow LED indicates Ethernet activity
eAudioCast	Provides audio-over-Ethernet technology when paired with other Autonomic devices

Environmental

Temperature	32°F to 104°F (0°C to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	337 BTU/hr

Power

Power Connection	110V-240V IEC 60320-1C13/C14 power cord (included)
Main Power Consumption	153W @ 1/8 Power, All Channels Driven, 4 ohms
Standby Power	6W
Power Cord	IEC C13 to NEMA 5-15, 3 Wire, 14Ga, 6ft (USA/Canada)

Questions? Contact Autonomic at **+1 914-598-1647** or
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Audio Specifications

Output Power (8 Ω)	55 Watts per Channel
Output Power (4 Ω)	85 Watts per Channel
THD+N	0.1%, 50w, 8 Ohm Load
S/N Ratio (Line Input to Amplified Output)	95dB (IHA-A Rated, 0.75Vrms Input)
Frequency Response (96kHz Sample Rate)	10Hz - 42kHz
Analog Input Sensitivity	0.75Vrms (Vol 100, Gain 0dB, 55w out)
Analog Input Impedance	22 k Ω
Digital Input Sensitivity	0dBFS
Analog Pre Amp Level	+14dB
Supported Sample Rates	48/96 kHz at 16-bit or 24-bit resolu- tion

I/O and Control Interfaces

Display	2.4" LCD Display
Trigger Outputs	(2) Trigger Outputs (12v, 3.5mm)
Trigger Inputs	(2) Trigger Inputs (12v DC)
Control System Protocols	IP, 2-way documented API
Control Interfaces	Control4, Crestron, Crestron Home, Elan, Josh.ai, Lutron, RTI, URC, AMX, WebUI, Tunebridge App for iOS and Android

Miscellaneous

Height	1.8" (45.8mm) 1RU
Height (with feet)	2.39" (60.8mm)
Width	17.1" (435mm)
Depth	11.9" (302mm)
Unit Weight	8.7 lbs (3.95 kg)
Shipping Weight	16.0 lbs (7.25 kg)
Mounting	Four (4) screw on feet included; two rack ears included