

2.4 GHz Indoor Compact WiFi Amplifier - N-Female Connectors

Model: HA2401MG

Applications

- 2.4 GHz ISM Band Applications
- IEEE 802.11b and 802.11g WiFi Wireless LAN (see model chart for capability)
- Public Wireless Hotspot

Features

- Active Power Control
- N-Female Connectors
- UL 94HB Flame Rating
- Compact, Lightweight Nylon Composite Case – No Heat Sink Required
- 9VDC Power Supply Included



Description

HyperAmp® HA2401MG series amplifiers are compatible with 802.11b and 802.11g (b/g) Wireless LAN equipment (see model chart below). Hyperlink's Active Power Control circuit automatically adjusts the amplifier's gain to provide a constant output power regardless of cable length.

The HyperAmp® HA2401MG series improves range by delivering full transmit power directly at the antenna where it is most effective. In addition the unit's receive gain compensates for cable losses. The unit can be configured to deliver the full transmit power with as little as 1 mW of input power, permitting cable runs of several hundred feet with no degradation in operating range.

The compact and low profile design of these indoor amplifiers makes them ideal for use as a "design-in" module or for use in weight-sensitive portable applications. Unlike PC board-only modules, the HyperLink module is a compact self-contained amplifier assembly offering greater dependability and ease of installation, and no heat sink is required. The durable nylon composite case of the HA2401MG has a UL 94-HB flame rating.

The power supply included with the amplifier is rated at 100-240 VAC @ 50/60 Hz allowing it to be used in the US as well as in the EU when used with the optional PSX-EU2 Plug converter (US NEMA 6-15R Flat Blades to EU 4/4.8 mm round pins).

Note:

This Hyperlink bi-directional amplifier is designed for burst half-duplex operation. It is not intended for constant transmit or CW operation. Operation of the amplifier in CW mode will damage the amplifier and void the warranty.

Specifications

Models Specifications

Model Number	Transmit Power	Compatibility
HA2401MG-100	100 mW (20 dBm)	802.11g (b/g)
HA2401MG-250	250 mW (24 dBm)	802.11g (b/g)
HA2401MG-500	500 mW (27 dBm)	802.11g (b/g)
HA2401MG-1000	1 Watt (30 dBm)	802.11b Only

Mechanical Specifications

Frequency	2400 – 2500 MHz
Receive Gain	15 dB Nom.
Max. Input Power	100 mW (20 dBm)
Operating Mode	Bi-directional, half-duplex Time Division Duplex. Senses RF carrier from transmitter and automatically switches from receive to transmit mode

Electrical Specifications

Connectors	(2) N-Female
Enclosure Material	Nylon Composite
Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Weight	0.3 lbs. (0.13 kg)
Dimensions	3.58 x 2.53 x 0.79 in (103.9 x 64.2 x 20.1mm)
Current Draw	0.80A Peak Tx and 0.06A Peak Rx
Supply Voltage	9-12 VDC +/-1V
RoHS Compliant	Yes

Note:

These amplifier products are available only for export, military, licensed amateur radio and OEM component sales and are not offered for general sale within the USA.