

HyperLink Wireless brand 2.4 GHz 802.11b/g/n Indoor WiFi Amplifier - 5 Watt Model: HA2405GTI-NF

Applications

- 2.4 GHz ISM Band Applications
- 802.11b/g/n WiFi Wireless LAN
- Public Wireless Hotspot

Features

- IEEE 802.11b/g/n compatible
- Active power control
- Receive bandpass filter
- N-Female connectors
- 12 VDC power supply included



Description

HyperLink GTI series are high power indoor RF amplifiers for 2.4 GHz spread spectrum wireless LANs. High power and excellent linearity make it the highest performance wireless LAN amplifiers available today. These WiFi amplifiers are compatible with 802.11b/g/n wireless LAN equipment. Hyperlink's APC (Active Power Control) circuit automatically adjusts the amplifier's gain to provide a constant output power regardless of cable length. Consisting of a receive amplifier and a transmit power amplifier, the GTI series installs indoors near the radio itself, combining ease of installation with significant improvement in operating range and performance.

The "GTI" series WiFi amplifiers increase range by providing transmit gain as well as 17 dB nominal of receive gain. This receive gain actually increases the receive sensitivity of most wireless LAN radios. This unit can be configured to deliver full transmit power with as little as 5 mW of input power. This feature permits cable runs of several hundred feet with no degradation in operating range.

Our design features 10W FET allowing these amplifiers to deliver full rated linear output in 802.11g mode.

The GTI amplifier features a heavy-duty enclosure machined from a single block of aluminum making it suitable for demanding commercial and military applications.

Streaming Media Ready

WiFi components used in a Streaming Video or Audio system work harder than ones carrying Data only. They are turned on for extended periods of time without the chance to cool off. Microwave devices are very sensitive to the heat generated from operating at high duty cycles. Most amplifiers, or for that matter many Radios, cannot pass Streaming Media content for extended periods of time without overheating. Some products were designed for Data only use and have no method of heatsinking. If you use them in a Streaming Media system, those products

will self destruct or have their lifespan diminished. It would be the equivalent removing the Heatsink or Fans from your PC.

These "Streaming Media Ready" amplifiers were designed from the start to survive the extreme conditions that Streaming Media imposes on an amplifier. Using proprietary heatsinking techniques, Hyperlink's Streaming Media amplifiers will remain at safe operating temperatures for the most demanding Streaming Media applications, without the need for cumbersome heatsink plates, fins or fans.

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

Transmit Power	5 Watt (37 dBm) / 10W FET
Receive Gain*	17 dB Nominal
Frequency	2400 – 2500 MHz
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
Connectors	N-Female
Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Dimensions (excluding connectors)	7.25 x 4.25 x 2.12 in (184 x 108 x 54 mm)
Weight	1.7 lbs. (.77 Kg)
Current Draw	3.6A Peak Tx and 0.14A Peak Rx
Supply Voltage	12VDC -0.5V / +1V
*Custom receive gains are available with custom orders. Contact L-com for additional information.	

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

