



## QP - AMP580500

Heavy Duty N-Female Connectors

### Features

- IEEE 802.11a OFDM Compatible
- 10 dB Transmit and Receive Signal Gain
- Outdoor Model
- Integral Lightning Protection
- All-Aluminum Construction
- Durable UV-Stable Finish
- Transmit and Receive LEDs
- Heavy Duty "N" Connectors
- International Power Supply

#### Available Models

Model	Connector
QP-AMP580500	N-Female

### 5.8 GHz; 802.11a Compatible Outdoor Bi-Directional Amplifier for Export and Military Applications

### Description

QP-AMP580500 series are 500 mW 5.8 GHz version of Hyperlink's amplifiers for 802.11a wireless LANs. They are compatible with IEEE 802.11a OFDM radios as well as radios using Direct Sequence or Frequency Hopping Spread Spectrum modulation.

The QP-AMP580500 is a fixed gain amplifier with up to 500 mW or +27 dBm of output power. The gain is fixed at the factory at +10 dB. The receive gain compensates for cable losses and actually increases the receive sensitivity of most wireless LAN radios. This feature permits long cable runs with no degradation in operating range.

The QP-AMP580500 5.8 GHz amplifier series features an all-metal weather-proof enclosure of die cast aluminum, making it suitable for demanding industrial and military applications. This outdoor model includes a coaxial DC Power Injector and mast mounting hardware. The Power Injector provides circuits in the injector provide remote amplifier diagnostic LEDs.

For outdoor applications, the QP-AMP580500 improves range and reliability by placing up to full transmit power as well as 10 dB of low-noise receive gain directly at the antenna where it is most effective. Designed for outdoor installations, this amplifier feature rugged weatherproof construction to ensure years of reliable operation in the harshest environments. Included with the outdoor model, the DC Power Injector provides power to the QP-AMP580500 through the antenna cable, simplifying installation. Current-sensing circuits provide remote amplifier diagnostic LEDs. In addition, this unit provides effective lightning protection with multi-strike capability.

#### Power Supply

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).

#### Product Availability

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

#### Note:

This QPCOM 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.





## QP - AMP580500

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### Specifications

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- Transmit Power 802.11a
- 500 mW (27 dBm)

#### Dimensions-Weight

- 4.5 x 2.5 x 1.3 (inches)
- 117 x 64 x 33 (mm)
- 68 lbs. (.30Kg)

#### General Specifications

- Frequency
- 5725-5850 Mhz

#### Receive Gain

- 10 dB nom.

#### Transmit Gain

- 10 dB

#### Water Resistant Rating

- IEC 60529 IPX7

#### Operating Mode

- Bi-directional, half-duplex Time Division

Duplex. Senses RF carrier from transmitter and automatically switches from receive to transmit mode

#### Operating Temperature

- 40°C to 50°C
- (-40°F to 122°F)

#### Current Draw

- 1 Amps Peak Tx and 0.05A Peak Rx

#### Supply Voltage

- 8-12VDC

#### Each Outdoor Kit Includes:

- DC Power Injector with Lightning Protection
- International Power Supply (110/220V)
- Mast Mounting Hardware

#### Guaranteed Quality

- QP-AMP580500 is designed and manufactures by QPCOM Inc. in the U.S.A and is backed by QPCOM's Limited Warranty.