



ATW-B80WB In-line Antenna RF Boosters



Specifications

RF frequencies range	470-990 MHz
Impedance	50 ohms typical
Signal gain	6 dB position: 6 dB typical 12 dB position: 12 dB typical
Input/Output connector	BNC-J
Power supply voltage	12V (Bus powered)
Current/Power consumption	60 mA
Operating temperature range	-10 to 60° C
Dimensions	25 mm (0.98") x 25 mm (0.98") x 92 mm (3.62")
Weight	125 g (4.41 oz) (excluding holder)
Case	Black anodized aluminum

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.

Wireless Microphones & System Accessories

Features

- Compact lightweight in-line design
- Selectable +6 and +12 dB gain
- Power status LED indicator
- Wideband operation (470-990 MHz)
- Bus power via coaxial cable

Description

The ATW-B80WB consists of a pair of UHF wideband powered in-line antenna boosters, designed to increase the RF signal strength to compensate for antenna cable loss. When paired with the appropriate UHF antennas the boosters are especially suited for applications where there are long RF cable runs between the antennas and receiver locations.

470-990 MHz

Engineered for temporary or permanent installations, the boosters are designed to work with the half-wave antennas supplied with 3000 and 6000 series receivers and the ATW-A49 LPDA antenna. Each booster contains an integral RF amplifier powered by 12V DC provided on the antenna cable by the associated wireless receiver or antenna distribution system. Power is required for their operation and a power active indicator illuminates when power is applied. Wideband filters on the boosters minimize the amplification of unwanted RF signals. A gain setting button permits selection of +12 or +6 dB operation, to compensate for cable losses or other operating conditions. Inputs and outputs are via standard BNC-type connectors. Constructed of metal to minimize the pickup of RF interference, the boosters are a stainless steel finish.

Architect's and Engineer's Specifications

The in-line RF booster set shall consist of two UHF wideband RF boosters for permanent or portable applications. Each RF booster shall be wideband filtered for operation as determined by the associated wireless systems and an internal RF amplifier designed to drive long cable runs between the antenna and receiver. Amplifier gain shall be selectable at +6 dB, +12 dB via side-mounted button. The antenna shall operate on 12V DC power supplied via the RF cable from an associated wireless receiver or antenna distribution system. Each antenna shall draw no more than 60 mA of current; an indicator light shall be provided on the antenna to show power is present. DC power shall pass through the device to feed other powered RF devices attached to the booster. RF input and output connections shall be via standard BNC-type connectors. Each in-line antenna booster shall be constructed of metal and have a stainless steel finish.

The Audio-Technica ATW-B80WB for systems operating in the 470–990 MHz band is specified.