

NADY AD-4

Amplified Antenna Distribution System



The Nady AD-4 is a professional amplified antenna distribution system that simplifies the operation of several wireless systems in the same location. The rack mountable AD-4 permits up to four diversity receivers to operate flawlessly—with only two antennas. In addition, the AD-4 has two “cascade” outputs which can connect to the antenna inputs of another AD-4. With this feature, only two antennas are needed to feed four, eight, twelve or even more wireless systems. The AD-4 is carefully designed—distortion and noise are kept to a minimum and intermodulation effects are eliminated. You can count on Nady Systems, the pioneer and leader in wireless, to bring you the easy and affordable way to completely eliminate antenna clutter.

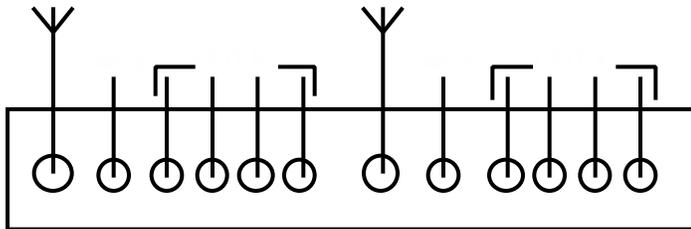


Fig. 1: The AD-4 rear panel showing that only two antennas are needed to feed four diversity receivers.

The AD-4 comes with a telescoping rod antenna with UHF PL-239 type connectors and BNC adapters. Two optional antenna set-ups are also available:

1. Nady RA-10 Remote Antenna, a four-element type similar to a ground plane antenna.
2. Nady RDP-2 Remote Dipole Antenna with a junction box fitted with three UHF female (SO-239) connectors; two for connecting antennas with UHF PL-259 type connectors and the third for a coaxial cable connector which connects to an AD-4 antenna input or antenna rack panel inputs.

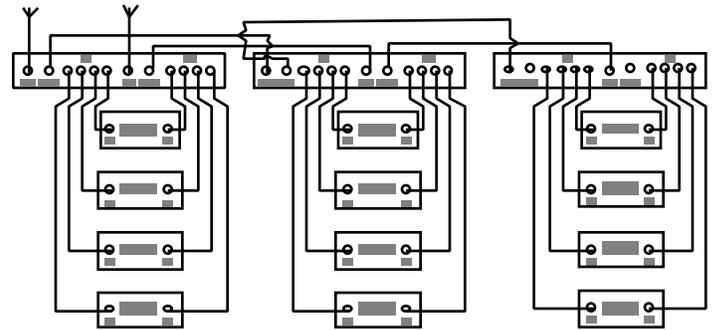


Fig. 2: Typical setup with two antennas feeding 12 diversity receivers using three AD-4 systems slaved together.

AD-4 SPECIFICATIONS

RF Gain: 1 dB \pm 2 dB per output port
Antenna Input Impedance: 50 Ohms
RF Output Impedance: 50 Ohms
Bandwidth: 145-250 MHz
Output Port to Port Isolation: 25 dB

1 dB Compression Point: > 0 dB
For best results, all outputs should be terminated with a receiver or a 50 Ohm terminator. All five outputs on the AD-4, including the cascade output, may be used as receiver outputs.
CAUTION: Avoid inadvertent grounding of the antenna.
Power Requirements: 110 AC
Power Consumption: Approx. 0.15 W

Front Panel: Power on/off switch with LED
Rear Panel: 8 ea. BNC Antenna Outputs
2 ea. BNC Antenna Inputs
2 ea. BNC Cascade Outputs
0.5 Amp fuse
Overall Dimensions: 16.5" L x 7.125" D x 1.75" H
(44 cm x 18 cm x 4.4 cm)
Weight: 4.5 lbs. (2.04 kg)

