

Features:

High Linearity and P25 Phase 2 compatible

VHF, 400 MHz and 800 MHz bands; mix of VHF/UHF amplifiers are available

Single and dual amplifier configurations

Independent system per amplifier

MCAS alarm and control for In Building requirements and NMS systems

Front panel indicators

Dry contact closures for local alarm

Thirty years of custom designed In Building Wireless products is reflected in this high linearity, power efficient RF power amplifier. Merging of micro controller to the latest in RF products produces the AMDI's 1465PA. The 1465PA channel amplifier is a high-linearity, multi-carrier amplifier for DAS (Distributed Antenna System) applications. The unit is available in single and dual-amplifier configurations. Each amplifier has its own processor board, alarms, panel indicators and power supply. The processor board controls the enable signal to the amplifier and monitors forward power, reverse power, current, fan status and heat sink temperature.

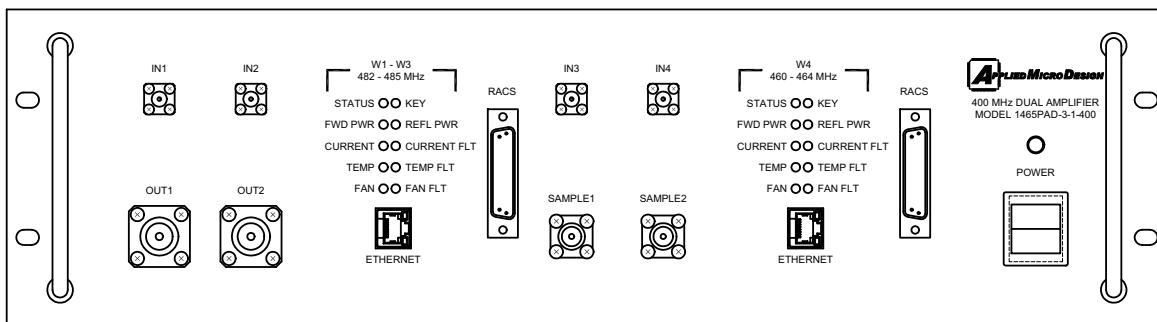
The processor board features remote monitoring capability via Ethernet. A computer running the Graphical User Interface (GUI) can display the status of the amplifier and provide control.

A front panel Look Port for each amplifier allows the user to sample the signal at the front panel. Look port enables measurement without interrupting main line communications. The Look Port sample is 40 dB below the main RF output port.

The processor board contains six NO/NC relay lines that interface to any alarm system and control.



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The Model Number for the Single Channel amplifier has the format:

1465PAS-C-FFF

where C is the number of Combiner inputs (1 for no combiner)
FFF is the frequency band (400 MHz or 800 MHz)

For example, Model 1465PAS-4-800 is single-channel amplifier with a 4X1 combiner and a frequency of 851 – 854 MHz.

The Model Number for the Dual Channel amplifier has the format:

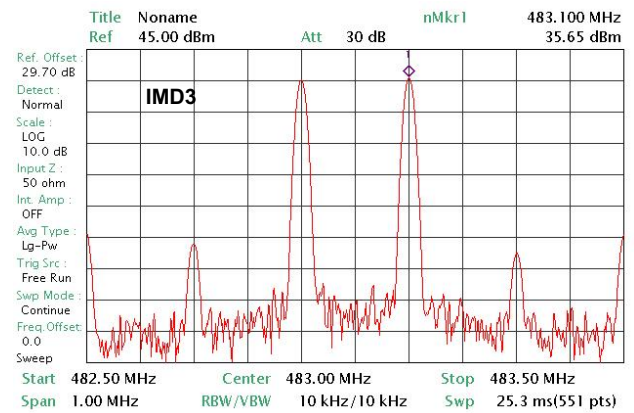
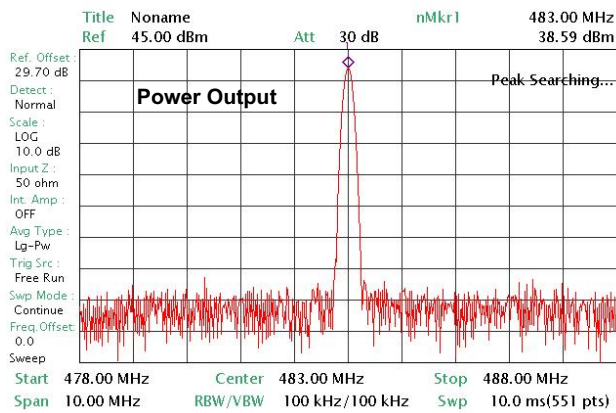
1465PAD-C₁-C₂-FFF

where C₁ is the number of Channel 1 Combiner inputs (1 for no combiner)

C₂ is the number of Channel 2 Combiner inputs (1 for no combiner)

FFF is the frequency band (400 MHz or 800 MHz)

For example, Model 1465PAD-3-1-400 is a dual-channel amplifier, Channel 1 has a 3X1 combiner, Channel 2 has a single input (no combiner), and the amplifier operates over the 453 – 488 MHz band.



Specifications

| | | | |
|-----------------|-------------------------|-----------------|---------------------------|
| Frequency: | 453 - 488 MHz | Frequency: | 851 - 854 MHz |
| Power Output: | 5 W (+37 dBm) Composite | Power Output: | 6.5 W (+38 dBm) Composite |
| Power Output: | + 20 dBm / carrier | Power Output: | + 22 dBm / carrier |
| Gain: | 35 - 45 dB | Gain: | 35 - 45 dB |
| Gain Adjust: | 10 dB | Gain Adjust: | 10 dB |
| ALC: | 5 Watts | ALC: | 5 Watts |
| OIP3: | +55 dBm | OIP3: | +60 dBm |
| Impedance: | 50 Ohms | Impedance: | 50 Ohms |
| Load VSWR: | Infinite, no damage | Load VSWR: | Infinite, no damage |
| N.F.: | 7 dB | N.F.: | 7 dB |
| Power Supply: | 110V AC | Power Supply: | 110V AC |
| Current: | < 2A | Current: | < 2A |
| Operating Temp: | -30° to +60° C | Operating Temp: | -30° to +60° C |
| Size: | 19" x 5.22" x 16" | Size: | 19" x 5.22" x 16" |