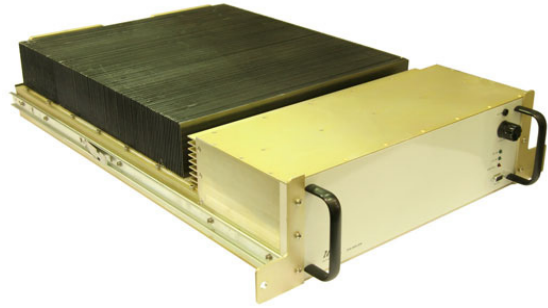


High Power Amplifier Module

Model: DHPA 2600

Product Features

- *High linearity PA provides 200 Watt output for broadcast of digital waveforms*
- *Multiple COFDM channel support*
- *Fully protected against input overdrive, temperature and output load VSWR conditions*
- *Integrated AC/DC power supply*
- *Remote control and self monitoring via RS485 interface*
- *HPA Monitor GUI software available for local PC control via RS232 interface (CD included)*



Frequency Band

MMDS-Band: 2500 MHz - 2700 MHz

Product Description

The DHPA 2600 is designed to operate as a final amplification stage for a terrestrial MMDS-Band transmitter or repeater system. It amplifies an input MMDS-Band signal from an exciter to a digital average output power level of 200 Watts, while maintaining its linear characteristics.

The DHPA 2600 architecture is based on a solid state design operating in Class A/AB linear mode over a frequency range of 2590 MHz to 2680 MHz. The amplifier is fully protected against input overdrive, overheating and output load VSWR conditions. The protection circuits are all self correction, allowing the amplifier to be restored to its normal operating state upon removal of the fault condition.

The DHPA 2600 incorporates an internal automatic self leveling loop to maintain constant gain over the life of the equipment. The automatic gain control circuit will compensate for gain variations caused by changes in temperature and device aging. Depending on the application, the amplifier could be configured to operate in ALC mode, maintaining a constant output power level.

The DHPA 2600 is a field replaceable system component that includes an integrated AC/DC power supply and is designed for indoor installation. The modular design facilitates aggregating multiple units into high power or even redundant configurations.

High performance carbon finned heat sinks ensure reliable cooling. Fans must be installed above the heat sinks and are required to provide an air flow of 1000 CFM to help dissipate the heat.

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Product Specifications (specifications are subject to change without notice)

Parameters

Operating Frequency Range	2500 MHz - 2700 MHz
Digital Average Output Power	200 Watts
Power Gain	55 dB typical
Gain Variation over Temperature	$\leq \pm 1$ dB
Gain Variation over the Signal BW	≤ 0.5 dB
In-band IMD	≤ -27 dBc
Spectral Regrowth (uncorrected)	≤ -30 dBc (at rated output power)
RF Input VSWR	1.50 : 1
Instantaneous Bandwidth	Up to 25 MHz

Interfaces

RF Input Connector	N-type (F), 50 Ω
RF Output Connector	7/16 DIN-type (F), 50 Ω
RF Monitor Connector	N-Type (F), 50 Ω
Control Interface	RS232: DB9 (F) - HPA GUI local control RS485: DB9 (F) - remote control

Power Supply

Voltage	198 - 264 VAC
Frequency	50/60 Hz
Power Consumption	1900 Watts (at rated output power)

Mechanical

Size	3 U of 19" wide cabinet
Dimensions (W x H x D)	430mm x 133mm x 781mm (16.93" x 5.25" x 30.75")
Weight	40 kg (88 lbs.)

Environmental

Operating Temperature	-25°C to +55°C (-13°F to +131°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	max. 95%, non condensing
Cooling	1000 CFM of forced air must be provided. 2x EBM-Papst Tubeaxial W2E200 Series fans are recommended.