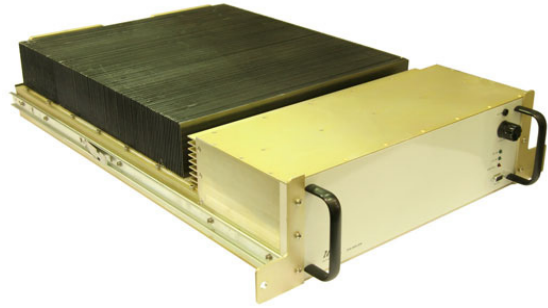


## High Power Amplifier Module

Model: DHPA 2330

### Product Features

- High linearity PA for broadcast of DVB-T/H, DMB, CMMB, DTMB and ATSC 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)
- Minimum operational life expectancy of 10 years



### Frequency Band

*S-Band: 2305 MHz - 2360 MHz*

### Product Description

The DHPA 2330 is designed to operate as a final amplification stage for a terrestrial S-Band transmitter or repeater system. It amplifies an input S-Band signal from an exciter to a digital average output power level of 280 Watts, while maintaining acceptable output emission levels.

The DHPA 2330 architecture is based on a solid state design operating in Class A/AB linear mode over a frequency range of 2305 MHz to 2360 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 2330 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 2330 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

<b>Output Frequency Range</b>	2305 MHz - 2360 MHz
<b>Digital Average Output Power</b>	280 Watts
<b>Power Gain</b>	55 dB typical
<b>Gain Variation Over Temperature</b>	±1 dB max.
<b>Gain Variation Over the Signal BW</b>	0.5 dB max.
<b>In-band Emissions</b>	≤ -25 dBc
<b>Spectral Regrowth</b>	≤ -30 dBc (at rated output power)
<b>RF Input VSWR</b>	1.50 : 1
<b>Signal Bandwidth</b>	4 - 8 MHz

#### Interfaces

<b>RF Input Connector</b>	N-type (female), 50 ohm
<b>RF Output Connector</b>	7/16 DIN-type (female), 50 ohm
<b>RF Monitor Connector</b>	N-Type (female), 50 ohm
<b>Control Interface</b>	RS232, DB9 (female) - HPA GUI local control RS485, DB9 (female) - remote control

#### Power Supply

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

#### Mechanical

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

#### Environmental

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