

AR4i8-200

4.0 - 8.0 GHz 200 Watt P1dB Class A Solid State Amplifier





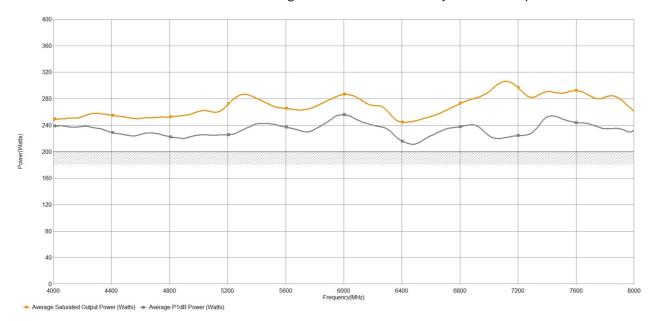
- Class A Operation
- 100% Mismatch Tolerant with no Foldback
- Scalable Modular Construction
- Ethernet, USB, GPIB, RS-232 Remote Interface
- 3 Year Warranty
- Applications: Radiated immunity (ISO, IEC, MIL), Telecom Component Test and Aerospace&Defence

The Model AR4i8-200 solid-state, Class A design, self-contained, air-cooled, broadband power amplifier. It is designed for applications requiring instantaneous bandwidth, high gain, and linearity. The amplifier provides a minimum of 200 watts P1dB across its operating bandwidth of 4.0 - 8.0 GHz. It includes protection from input overdrive beyond 10 dBm, as well as protection from various failure conditions such as over-temperature and power supply faults.

An easy-to-read front panel display shows the operational status and fault conditions. All amplifier control functions and status indications are available remotely using GPIB/IEEE-488, RS-232, USB, or Ethernet. Interface connectors are located on the back panel. The touchscreen on the front panel manages local and remote operation.

Its wide bandwidth also makes it suitable for 5G testing applications. The Class A design allows for continued operation into high VSWR loads, including open and short circuits, making it suitable for EMC Test applications including 7.125 GHz OEM standards.

The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.K. Export Administration Regulations. Diversion contrary to U.K. law is prohibited.





Technical Specifications

Frequency Range	4.0 - 8.0 GHz
Rated Output Power	230W (min) - 240W (typ)
Input for Rated Output	1 dBm
Power Output @ 1dB Compression	200W (min) - 220W (typ)
Small Signal Gain	53 dB
Gain Variation (max) ±	+/- 3.0 dB
Gain Control Adjust When Below P1dB	30 dB
Harmonics @ P1dB (min)	-18 dBc
Spurious	-70 dBc
Input VSWR	2:1 (max)
Output VSWR	2:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	63 dB
Noise Figure	12 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any Phase (No Foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	62 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	2.5 KVA
Supply Voltage Single Phase	90 to 264 VAC

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	WRD350
RF Sample Port Connectors	Type-N Female, (coupling factor 50 dB typical)
Safety Interlock	Via rear panel mounted BNC-female
Dimentions (No Cabinet) (W x H x D)	48.3 x 31.1 x 61.5 cm (19.0 x 12.2 x 24.2 in) (7U)
Weight (No Cabinet)	50 Kg (110 lbs)
Cooling System	Forced air (self contained fans)
Com. Interface	IEEE-488 / RS-232 / USB 2.0 / Ethernet



Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000
Shock and Vibration	Normal Truck Transport



Regulatory Compliance (CE)

ЕМС	EN 61326-1
Safety	EN 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	3A001







Available Configurations

Product	Configuration	Item #
AR4i8-200-001	Front Panel RF Connectors	4-342032
AR4i8-200-002	Rear Panel RF Connectors	4-342033

