



Press Release

For Immediate Release

CAP Wireless Introduces the US1498 High Power, Solid State, UHF Power Amplifier for Airborne and Fixed Location Operations

NEWBURY PARK, Calif. — Sept. 2, 2008 — CAP Wireless, Inc. (CAP), a leading supplier of high-performance microwave and RF amplifiers and amplifier-based subsystems, today announced the [US1498](#) high power, solid state, ultra-high frequency (UHF) power amplifier, which is designed especially for airborne and fixed location operations. The US1498 delivers outstanding efficiency, linearity, and power amplification, and its robust construction facilitates operation in thermally challenging settings.

The unit employs laterally diffused metal oxide semiconductor (LDMOS) device technology, which ensures reliability and robustness in high temperature and poor load voltage standing wave ratio (VSWR) environments. Additional benefits of this technology include high gain and operating efficiency. The dual input, single output design provides a minimum of 100 watts per channel output across a frequency range of 290-320 MHz. The amplifier operates at full rated capability when operated from a 22 to 32 volt DC power supply. The US1498 is packaged in a thermally efficient finned aluminum housing for customer-supplied forced air cooling, and incorporates digital attenuators on each channel that enable independent power control of each channel.

Key features of the US1498:

- Outstanding power efficiency (>28 % two channels, 100 watts/channel)
- Excellent linearity (<-30 dBc)
- Robust LDMOS device technology
- Wide range DC supply voltage capability (22-32 VDC)
- Min. 100 watts per channel or 250 watts single channel
- Lightweight aluminum housing
- Four bit attenuators for independent power control of each channel
- Enhanced redundancy capability
- Dual input/single output for single or dual channel operation
- VSWR and high temperature alarm outputs
- AN/PRC 117(F) compatible
- Integrated output isolator for excellent impedance match and protection against poor VSWR
- Continuous operation at elevated ambient temperatures

For complete product information, visit <http://www.capwireless.com/products/us1498.php>

Pricing and Availability

The US1498 UHF power amplifier is available immediately. Pricing depends upon individual customer specifications; please call CAP Wireless at 805-499-1818 or email info@capwireless.com for specific price quotes and additional information.

About CAP Wireless

CAP Wireless develops and manufactures a broad range of RF and microwave amplification products and related subsystems for homeland security, defense electronics, and commercial microwave markets. The company's Spatium product line provides extremely broad bandwidth, high-power, solid state amplifiers for applications such as electronic warfare (EW) systems, radar and communication systems, laboratory instrumentation, and electromagnetic compatibility and interference testing. Applications currently in development include high-power amplifiers for radar, microwave imaging, and satellite and terrestrial communications systems. CAP Wireless, Inc. is a privately held corporation headquartered in Newbury Park, CA. For more information about CAP Wireless and its products, please call 805-499-1818, email info@capwireless.com, or visit www.capwireless.com.

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