

**NUWAVES ENGINEERING ANNOUNCES THE COMPLETION OF A PAIR OF
10 WATT C-BAND RADIO FREQUENCY BIDIRECTIONAL AMPLIFIER MODULES
FOR COMMUNICATIONS, TELEMETRY AND ELECTRONIC WARFARE MARKETS**

Middletown, Ohio, August 23rd, 2017 – NuWaves Engineering, an international Radio Frequency (RF) and Microwave solutions provider, announces the completion of the IRaD phase for their newest miniaturized 10 watt C-band bidirectional amplifier (BDA), to be added to their line of NuPower Xtender™ bidirectional amplifier products. This module will be priced at \$2,900/ea in quantities of one hundred, and will be available Q4 2017.

The NuPower Xtender™ C10RX01 and C10RX02 BDA modules, part number NW-BA-C-10-RX01 and NW-BA-C-10-RX02, follows the recent release of both the 20 W C-Band Power Amplifier (NuPower™ C20R01) and the 20 W C-Band bidirectional amplifier (NuPower Xtender™ C20RX01) as NuWaves looks to push their presence and expertise to higher-frequency applications. This BDA offers the performance of a traditional power amplifier coupled with a low noise amplifier for receive mode, providing an amplification solution in one miniaturized package for half-duplex transceivers.

The NuPower Xtender™ C10RX01 and C10RX02 both provide saturated RF output power of 10 Watts in transmit mode and 10 dB of gain in receive mode across the C-band frequency range of 4.4 to 5.1 GHz. Both modules are designed to accept a +30 dBm input signal, making them compatible with common datalinks that typically provide a 1 W output. The NuPower Xtender™ C10RX01 requires a manual transmit/receive (T/R) control input signal, while the NuPower Xtender™ C10RX02 offers an autosense T/R control mode where the transmit/receive condition is determined automatically.

The BDA's aluminum chassis features improved heat dissipation characteristics for higher-temperature operation, and at a compact size it is small enough for integration into a wide variety of air- or ground-based tactical, test or training platforms.

“These latest bidirectional amplifier modules provide the system integrator with additional options for enhanced operability across multiple scenarios in the military communications market, including unmanned aircraft systems (UAS), filling the gap in the market for small bidirectional amplifiers,” said Jeff Wells, President and CEO of NuWaves Engineering. “The NuWaves’ team takes pride in our ability to provide a full spectrum of solutions in support of the Warfighter.”

NuWaves Engineering is a veteran-owned, premier supplier of RF and Microwave solutions for Department of Defense (DoD), government, and industrial customers. An RF engineering powerhouse, NuWaves offers a broad range of design and engineering services related to the development and sustainment of key communications, telemetry and electronic warfare systems, as well as a complete line of commercially available RF products. NuWaves’ products include wideband frequency converters, high-efficiency and miniature solid state power amplifiers and bidirectional amplifiers, high intercept low noise amplifiers and miniature RF filters. NuWaves Engineering...Trusted RF Solutions™.

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