



## COMTECH XICOM TECHNOLOGY ANNOUNCES NEW LIGHTWEIGHT, OUTDOOR, 500-WATT Ka-BAND AMPLIFIERS FOR SATELLITE COMMUNICATIONS



**OCTOBER 13, 2009, SANTA CLARA, CALIF.** - - - Comtech Xicom Technology, Inc., a technology leader of high power amplifier products for satellite communication (SATCOM) announced new lightweight, high power, antenna-mount, traveling wave tube amplifiers (TWTAs) that expand the capabilities of broadcast and teleport operators.. The new 500-Watt TWTA's operate in Ka-band uplink frequencies. Customers can see and learn more about these and other new products at Comtech Xicom Technology's booth, 533, during the SATCON 2009 trade show in New York City, October 14-15 and at booth 925, during the MILCOM 2009 trade show in Boston, October 19-21.

With rapid growth in high definition and multichannel broadcasting, utilization of Ka-band spectrum is increasing worldwide. Xicom is announcing four new 500W TWTAs to address these needs. The XTD-500Ka and XTD-500Ka6 allow the amplifier to be driven up to its saturated output power level while the XTD-500KaL and XTD-500Ka5 are limited to operation up to the linear power level. This is done to optimize the overall efficiency of the TWT and results in high linear power at a more economical price. Comtech Xicom's new outdoor TWTAs enable satellite operators to mount the HPA at the antenna, eliminating the high losses of long waveguide runs at Ka-band and reducing shelter requirements while maintaining high reliability.

"These new high power TWTAs will enable SATCOM service providers to meet the ever demanding requirements of expanding service, performance and reliability," said John Branscum, President of Comtech Xicom Technology. "This is another example of Comtech Xicom listening to our customers' and developing the next cutting-edge product to address their needs."

Xicom's new TWTAs operate across the commercial uplink frequencies of 27.5 to 31 GHz. The rugged weatherized amplifiers are very compact and lightweight to minimize the impact on the physical plant of the teleport. all four systems weigh only 58 pounds (26.4 kg) and are housed in the compact weatherized enclosures measuring 10.25" high x 9.5" wide x 22.25" long (260mm W x 240mm H x 565mm L). The 500W amplifier package is

just 2” longer than Comtech Xicom’s family of 250-Watt TWTAs, making the new models simple upgrade solutions for existing users.

The XTD-500Ka family features very high RF conversion efficiencies which enable a compact thermal management design for a smaller, lighter weight unit that still meets rugged environments up to the specified 60°C ambient operating temperature. Comtech Xicom offers a unique and automated bias control mechanism that extends the life of the TWTA by adjusting the bias over time to maintain constant current and keep the tube efficiency optimized. Comtech Xicom has also developed proprietary techniques for matching linearizer performance to the tube characteristics over a wide range of operating conditions, thus ensuring not only optimum linear power under the test conditions at beginning of life, but maintaining optimum linear power across frequency, back-off conditions. The amplifiers are available with multiple options including redundant and phase combined system configurations, integral BUCs and harmonic filters. Remote external controllers are available to operate the HPA from user defined locations.

Data sheets and technical information are available by contacting [sales@xicomtech.com](mailto:sales@xicomtech.com)

#### **About Comtech Xicom Technology, Inc.**

Xicom Technology, a subsidiary of Comtech Telecommunications Corp. (Nasdaq:CMTL), was established in 1991 and is a technology leader in the development and manufacturing of high power amplifier products for worldwide commercial and military SATCOM markets. Amplifiers include traveling wave tube amplifiers (TWTAs), solid-state power amplifiers (SSPAs) and klystron power amplifiers (KPAs) operating in a wide range of communication frequencies. Amplifier products are available for fixed location and mobile applications and are packaged in rack-mount and antenna-mount ODU configurations. More information on [www.xicomtech.com](http://www.xicomtech.com)

#### **About Comtech Telecommunications**

Comtech Telecommunications Corp. designs, develops, produces and markets innovative products, systems and services for advanced communications solutions. The Company believes many of its solutions play a vital role in providing or enhancing communication capabilities when terrestrial communications infrastructure is unavailable or ineffective. The Company conducts business through three complementary segments: telecommunications transmission, mobile data communications and RF microwave amplifiers. The Company sells products to a diverse customer base in the global commercial and government communications markets. The Company believes it is a market leader in the market segments that it serves.

Certain information in this press release contains statements that are forward-looking in nature and involve certain significant risks and uncertainties. Actual results could differ materially from such forward-looking information. The Company's Securities and Exchange Commission filings identify many such risks and uncertainties. Any forward-looking information in this press release is qualified in its entirety by the risks and uncertainties described in such Securities and Exchange Commission filings.

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