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## Comtech Xicom Technology Introduces New Industry-Best Compact Efficient GaN Solid-State X-Band SATCOM Block Upconverter

### 20 Watts of Linear Power in a 5.3 lb Antenna-Mount Package

SANTA CLARA, Calif.--(BUSINESS WIRE)-- May 2, 2016-- Comtech Xicom Technology, Inc., the technology leader in high-power amplifiers for satellite communication (SATCOM) uplink applications, announces a new GaN-based solid-state X-band block upconverter (BUC) that packs a tremendous amount of power into a 5.3-pound (2.4 kg) antenna-mount outdoor unit. This compact, lightweight and highly capable BUC provides 20 watts of linear output power in a 5.8" x 5.1" x 3.9" (147mm x 130mm x 99mm) feed-mountable package designed to handle tough environments and meet stringent X-band RF requirements, while drawing very little power for extended battery operation.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20160502005686/en/>



New XTSLIN-20X-B1. 20 Watts of linear power, only 5.3 lbs. (Photo: Business Wire)

higher data rates and more efficient operation. End users no longer have to drop to kbps data rates in order to carry their X-band terminal on their backs."

The key to this unit's compact size and light weight is its efficiency. It operates as a Class AB amplifier with DC prime power draw ranging from 108W at 20W linear RF power output, down to 60W at 2W linear power output. Optional proprietary features offer even greater efficiency at lower output power levels with Battery Saver mode to extend battery life when conditions allow, making this the most flexible BUC of its kind for manpack and transportable terminals.

The new X-band BUC accepts a 950-1450 MHz L-band input, upconverts it to 7.9 - 8.4 GHz X-band. The all solid-state unit uses GaN transistors to amplify the signal to achieve full output power. Additional features include temperature compensation, gain control, harmonic filtering, tight gain variation and stability, a serial RS-232 digital monitor and control interface, and options for operating with +24 or +48 VDC prime power, provided over the IF line or through a separate connector.

Data sheets for Model XTSLIN-20X-B1 are available at Comtech Xicom Technology's website: [www.xicomtech.com](http://www.xicomtech.com).

Model XTSLIN-20X-B1 features approximately 50W of saturated output power, 25W of linear power using MIL-STD-188-164 definition at mid-band, and more than 20W of linear power across the 500 MHz frequency band (7.9 - 8.4 GHz) over a temperature range of -40°C to +60°C. This high linear output power level is achieved at less than 120W prime power consumption across all conditions, and comes in a self-cooled feed-mount package that can handle the toughest environments.

"With limited budgets and increasing bandwidth demands for both commercial and military SATCOM systems, users are looking to benefit from the available capacity that the X-band spectrum offers," said John Branscum, President of Comtech Xicom Technology, Inc. "This new BUC enables system integrators to offer highly compact transportable and man-portable SATCOM terminals that take advantage of Skynet, XTAR and WGS to provide much

Comtech Xicom Technology, Inc., a world leader in high-power amplifiers, manufactures a wide variety of tube-based and solid-state power amplifiers for military and commercial satellite uplink applications. The product range encompasses power levels from 8 W to 3 kW, with frequency coverage in sub-bands within the 2 GHz to 45 GHz spectrum. Amplifiers are available for fixed and ground-based, ship-board, and airborne mobile applications. Please visit [www.xicomtech.com](http://www.xicomtech.com) for more information.

Comtech Telecommunications Corp. designs, develops, produces and markets innovative products, systems and services for advanced communications solutions. The Company sells products to a diverse customer base in the global commercial and government communications markets. The Company believes it is a leader in most of 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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Financial Media contact:

Michael D. Porcelain, Senior Vice President and Chief Financial Officer

Phone: 631-962-7000

E-mail: [info@comtechtel.com](mailto:info@comtechtel.com)

or

Product Media contact:

Eric Schmidt

Comtech Xicom Technology, Inc.

Phone: 408-213-3052

E-mail: [eric.schmidt@xicomtech.com](mailto:eric.schmidt@xicomtech.com)

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