



Comtech Telecommunications Corp. Introduces the CS67PLUS, the World's First and Smallest Software-Defined, High Capacity, Troposcatter Radio/Modem

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MELVILLE, N.Y.--(BUSINESS WIRE)--Jan. 22, 2020-- January 22, 2020 -- Comtech Telecommunications Corp. (NASDAQ: CMTL) announced today that its Orlando, Florida-based subsidiary, Comtech Systems, Inc., which is part of Comtech's Government Solutions segment, introduced the world's first software-defined adaptive troposcatter combination radio/modem, packaged in a compact sealed module. This unique, patented adaptive architecture is capable of supporting line-of-sight ("LOS") and troposcatter beyond-line-of-sight ("BLOS") communications with a capacity of up to 210 Mbps of full duplex data throughput. Offering a wide selection of modulation techniques from BPSK to 64APSK, coupled with the most powerful Error Correction in the industry, Low Density Parity Check ("LDPC"), the CS67PLUS Tropo Radio is a solid foundation for any troposcatter system.

"This is the most advanced troposcatter radio/modem in the marketplace," commented Fred Kornberg, President and Chief Executive Officer of Comtech Telecommunications Corp. "Comtech continues to lead the troposcatter technology space by continuing its investment and marketing of what we believe to be the most advanced telecommunications products in the world."

Operating in the 70 MHz to 6.0 GHz frequency range, the compact size of the CS67PLUS is possible due to its Zero-IF design, providing the lowest cost, lowest power, and the smallest footprint solution of any modern troposcatter radio/modem technology to date. The radio module is mounted in a single rack unit connectorized interface chassis. It contains two transmit channels and four receive channels and is user-configurable for Single, Dual or Quad Diversity system configurations, essential to modular tactical troposcatter terminals.

In another industry first, the CS67PLUS can operate in dual-stream mode, intelligently shifting data between diversity channels in order to double throughput in favorable conditions. The CS67PLUS utilizes Phase Shift Keying ("PSK") modulation schemes, critical in troposcatter applications for its low peak-to-average power ratio ("PAPR"). A modulation with low PAPR is essential when using high power amplifiers such as Solid-State Power Amplifiers ("SSPAs"). Operating with a smaller back-off than other forms of modulation, such as Quadrature Amplitude Modulation ("QAM"), PSK modulation increases the range of the troposcatter system.

To maximize link availability and data throughput, the CS67PLUS features a patented deep learning Adaptive Coding Modulation ("ACM"). ACM continuously selects the best modulation and error correction coding scheme on a frame-by-frame basis, based upon troposcatter link conditions, to continuously provide maximum throughput and link availability. For applications where network equipment requires a fixed throughput, the CS67PLUS can be operated in Fixed Data Rate mode. As standard on previous Comtech Systems troposcatter modems, the CS67PLUS features Automatic Link Power Control ("ALPC"), which adjusts the transmit power level based upon link conditions to maintain the customer-selected level of service desired. This also reduces the probability of interference at distant stations and reduces the probability of signal intercept.

For critical mission links, a redundant CS67PLUS system can be supplied, equipped with two (2) modules mounted in the 1RU chassis. Modules are easily removable and are Hot-Swappable. The features and capabilities described above, coupled with Comtech's field proven performance, have led to the U.S. Marine Corps selection of the CS67PLUS for their NGT ("Next Generation Tropo") program.

Comtech Systems, Inc. (www.comtechsystems.com) specializes in system design, integration, supply and commissioning of turnkey communication systems including over-the-horizon microwave, line-of-sight microwave and satellite.

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.

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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