

A soldier in full camouflage gear, including a helmet and a watch, is shown from the chest up, focused on a laptop. The laptop is open, and the soldier's hands are on the keyboard. In the foreground, a portion of a drone is visible. The background is a blurred outdoor setting with trees and foliage.

COMTECH DEFENSE SOLUTIONS

INNOVATIVE SOLUTIONS FOR NEXT-GENERATION OF RESILIENT COMMUNICATIONS FOR THE WARFIGHTER

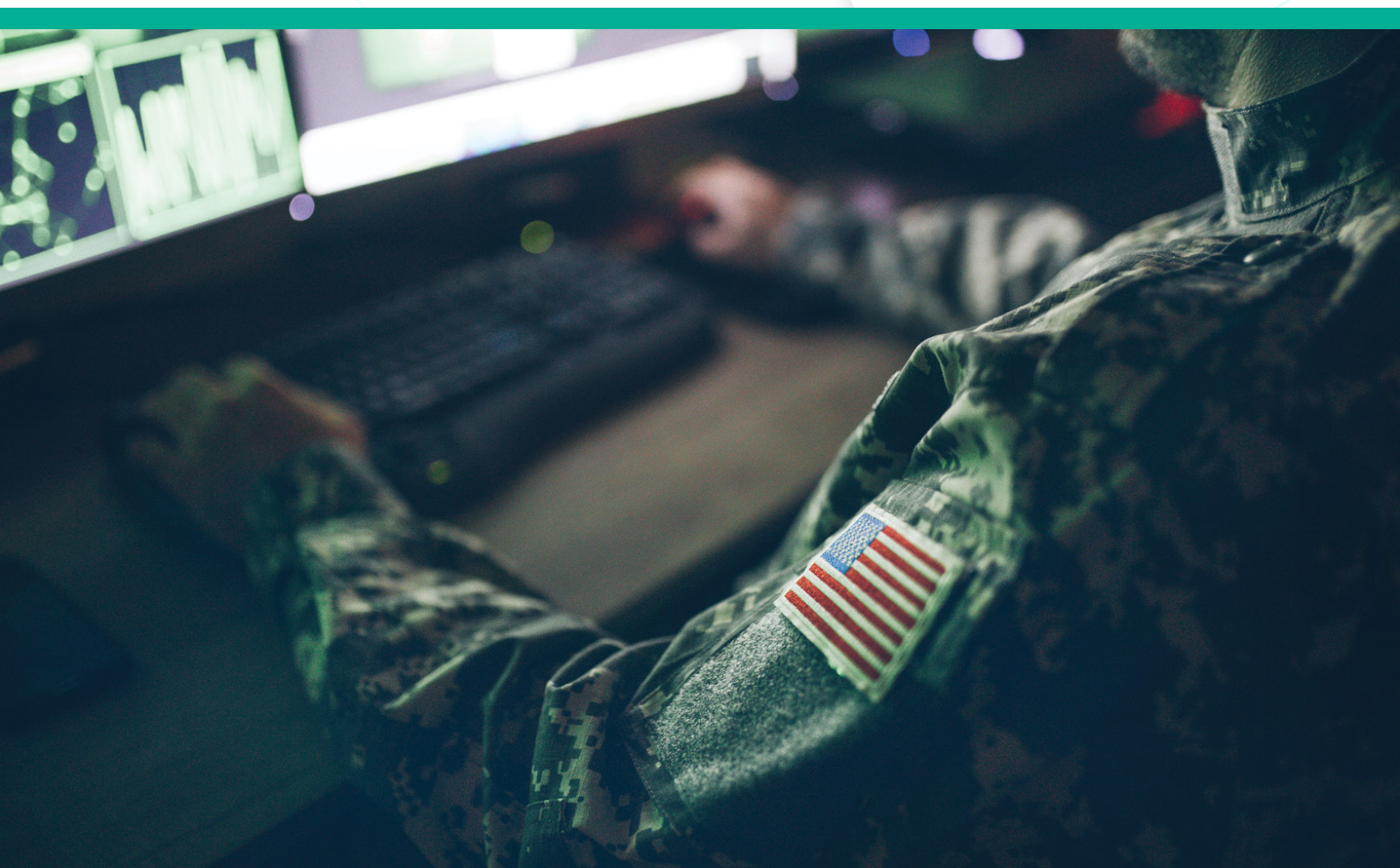
Secure, resilient, ruggedized communications that reliably support effective Command Control decisions to gain and keep the edge. Anytime. Anywhere. In Any Domain.

An Experienced Partner You Can Trust

As a US and Allied Governments' trusted partner for over 30 years, Comtech develops and deploys uncontested Defense Solutions that are custom-built for the all-domain warfighter needs; designed to deliver the most responsive, easy-to-use and adaptive communications for any environment.

Comtech has earned the trust of the DoD and the Intelligence Community by delivering thousands of systems 'Made-in-America' with the industry's most secure supply chain. The secret to our success is forged in our close partnership with government and defense customers implementing real-world solutions on-demand while synchronizing our technology roadmap for future innovations to keep you uncontested.

Trusted By The Most Demanding Mission-Critical Agencies



Global Adversarial Threats Driving Demand for Assured Communications

A modern military must have intelligent satellite communications networks capable of delivering real-time IS data and high-definition video to warfighters across the battlespace.

However, the development of kinetic, electromagnetic, and cyber anti-satellite capabilities has created a focus on communications in a day without space.

Comtech is supporting advanced multi-orbit, multi-constellation capabilities that allow for the use of GEO, MEO, HEO, and proliferated LEO constellations to ensure communications in aggressively contested environments.



We recognize that layering terrestrial and troposcatter capabilities create additional data paths that in many cases provide complementary capabilities to satellite communications, increasing resilience and flexibility in anti-access/area denial scenarios, with extremely small form factors that make “tactical troposcatter” a reality.

Comtech has new military-grade backbone and portable comms solutions to meet the most demanding defense and government mission requirements anywhere on Earth. These world-class platforms offer the most reliable, scalable, and ruggedized capabilities that enable defense and government users to leverage assured and resilient communications in contested environments.

A background image for the bottom section of the slide. It features a soldier in camouflage gear, with a digital overlay showing a battlefield map and satellite icons. The text is overlaid on a semi-transparent black box.

COMTECH DEFENSE SOLUTIONS
GIVES YOU THE EDGE TO STAY
UNCONTESTED IN THE
ALL-DOMAIN BATTLEFIELD

COMTECH'S SOFTWARE-DEFINED SOLUTIONS

Our Software-Defined Modem Solutions offer extremely compact form-factors, compatible with a variety of platforms, and provide an upgrade path to support your future requirements. When there is a need to deploy with heightened resiliency, our ruggedized modems empower mission success with software upgrades that enable satellite networks to be field upgradeable and reconfigurable in seconds.



Our Multi-Orbit Satellite Gateway Modems serve as a backbone network to provide high-speed trunking service gateways that support VSAT Networks across hundreds of thousands of sites worldwide.

Furthermore, our game-changing Troposcatter Radio/Modem has brought what was thought of as an antiquated technology, back to life perfectly filling the gap between Line of Site (LOS) Terrestrial communications and Beyond Line of Site (BLOS) Satellite Communications.



CS67PLUS Radio/Modem

**MULTI-ORBIT GATEWAY
MODEMS ENABLE BACKBONE
NETWORK TO PROVIDE
HIGH-SPEED TRUNKING**

SECURELY LEVERAGE HIGH THROUGHPUT SATELLITE COMMUNICATIONS SYSTEMS

Helping Armed Forces And Government Agencies Stay A Step Ahead

The government and defense markets are changing quickly, and Comtech is innovating ahead of those changes and demands on the horizon.

The development of flexible software-defined modems that can host multiple waveforms is critical to enabling operators to configure and meet changing electromagnetic spectrum conditions. Comtech offers a broad range of amplifiers across X, C, Ku, Ka, Q, and V bands providing flexibility and support for adaptable terminals.


The commercial desires align well with where the government and defense markets are headed driving open architectures and interoperability, which has feathered in nicely with the DoD's similar focus with Joint All Domain Command and Control (JADC2).

Some of our advanced work in support of high

throughput satellite operators in GEO, LEO, and MEO is another strong example of leveraging our commercial ties to keep armed forces a step ahead through multi-orbit connectivity capabilities.

We've demonstrated MEO and LEO support on a number of our modem platforms and updated to our core defense product to support Highly Elliptic Orbit (HEO) satellites.

We deliver state-of-the-art products, systems, and customized communications solutions for customers worldwide using various technologies, including SATCOM, Troposcatter or Over-the-Horizon (OTH), microwave, and HF/VHF/UHF, provide increasing value with high data rate communications solutions. Our efficient and reliable ground equipment portfolio meets the unique demands of government and military customers.



NEXT-GEN COMPACT, ADAPTIVE AND FUTURE-READY MODEM SOLUTIONS

SLM-5650C2 **Portable Software-Defined Modem**

This Next-Gen portable software-defined modem is designed for the most demanding government and military applications as well as small commercial Satcom terminals. Featuring extremely compact form factors and an extensive list of software options, the SLM-5650C2 modem can be integrated with a variety of platforms, carried and operated in mobile manpacks, and deliver an upgrade path to support future requirements.

Warfighters can configure and reconfigure these modems to roam seamlessly between constellations and orbits, all without the need for manual switching between modems and terminals. That eliminates the need to carry a computer and cables to navigate

web pages and allows the reconfiguration of the satellite asset in real-time with no tools. That allows soldiers to remain focused on the mission instead of the technology.

The SLM-5650 suite of modems supports GEO, HEO, LEO, and MEO links, all-orbit capabilities that will deliver on the government's demand and mission-critical need for assured communications across all environments.

The SLM-5650 modem can operate a base Satcom modem over legacy waveforms and quickly and easily kick into protective mode when operational situations dictate.

Comtech World's Fastest **5Gbps Multi-Orbit Gateway Modem**



The CDM-780 gateway modem is the latest and most powerful in a long line of backbone platforms, now capable of managing unprecedented amounts of data delivered over new and complex wideband GEO, MEO, and LEO satellites and constellations.

Comtech is a longtime developer and provider of modems and amplifiers to the defense community, and the CDM-780 is ready to serve as a government backbone network with

high-speed trunking services to gateways and VSAT networks with hundreds of thousands of sites.

Featuring five times the bi-directional speed of the nearest offering, the CDM-780 further extends Comtech's successful portfolio of advanced high-speed trunking and broadcast modems with a level of flexibility capable of delivering 2.5Gbps simplex and 5Gbps duplex data rates over a single solution.

A graphic showing a view of the Earth from space, with glowing blue lines representing satellite orbits and ground stations. The lines connect various points on the Earth's surface and extend into the upper atmosphere. A dark rectangular text box is overlaid on the center of the image.

**OFFERING REAL-WORLD
SOLUTIONS SYNCHRONIZED
WITH OUR TECHNOLOGY ROADMAP**

Satellite Amplifiers & Frequency Converters For Military & Government Applications



Comtech's line of high-power amplifiers (HPAs) are employed in military communications applications around the globe. From transportable to airborne applications, Comtech leads the way for high-quality, state-of-the-art TWTA and SSPA designs. Our HPA designs will meet your most demanding requirements for size, weight, efficiency, and high reliability.

STRATEGIC COMMUNICATIONS

From missile defense to secure communications, the armed services count on Comtech's X-band, C-band, Ka-band, Q-band and V-band amplifiers.

AIRBORNE & DATALINKS

Comtech has also developed extensive airborne traveling wave tube amplifier (TWTA) capabilities to become a leading supplier of high-power, millimeter wave airborne power amplifiers.

TRANSPORTABLE NETWORKS

Comms on the pause applications count on Comtech for lightweight, efficient and easy-to-use HPAs.

ON-THE-MOVE

Comtech has developed compact, rugged, efficient, lightweight solid-state amplifiers optimized for transportable applications. Learn more at www.comtech.com.

Troposcatter Solutions

Technology driven by Innovation



Advanced Troposcatter Systems provide high capacity, low-latency data links for over-the-horizon distances without the need to rely on satellites or multiple line-of-sight repeaters. They also provide a level of resistance to intercept or detection that exceeds most line-of-sight microwave and satellite communications.

These systems have little in common with the troposcatter (tropo) equipment developed for long-haul communications from the 1950s to the 1980s, much like computers today bear little resemblance to the computers of that era.

The common element is that all troposcatter systems function by using the non-homogenous elements present in the lowest level of the atmosphere—such as water vapor, dust, and atmospheric variations—to scatter a small

portion of the transmitted energy forward in a predictable manner.

Our **CS67PLUS Software-Defined Radio/Modem** is the most advanced troposcatter modem on the market and is the heart of Comtech's Troposcatter Family of Systems with the capability to aggregate that transmitted troposcatter energy into a high-throughput data link.

Not only are we the world leader Beyond Line of Site (BLOS) Technology providing high-capacity, low-latency data links without the need for satellites or repeaters, but we also offer satellite location tracking, field engineering, equipment repair, depot and logistics, and support, cyber training and solid state drives for mission-critical solutions.

Tracking & Situational Awareness



Comtech is a worldwide provider of secure satellite on-the-move tracking, messaging solutions, and network services to Military, Government and Commercial customers for force tracking, command and control, and situational awareness applications.

We provide secure satellite-based packet data communication systems, and location and messaging services through the use of advanced communication and network technology. Comtech's solutions allow users to stay connected and informed, even in the most austere and hostile environments.

Sustainment Services

Reliable field performance, proactive repair, coordinated shipping, managed inventory control, on-location sparing and repair; all enhance the operational efficiency of any network.

Comtech's ILS team offers complete, end-to-end services and can tailor its capabilities to meet clients' custom needs including full implementation, inventory, and program management.

Comtech's network of security cleared field engineers are highly trained and experienced in the deployment, training, and maintenance of almost all industry standard, customized, and secure RF, satellite, IP/IT infrastructure, and wireless networks. Whether it's operational support, command center staffing, field logistics, global depots, maintenance, and or cyber training Comtech provides the military with the ideal support services- for mission-critical solutions.





Contact Us
comtech.com/defensesolutions