

**RCG**

Rugged Cellular Gateway

RUGGED CELLULAR GATEWAY

SOLUTION OVERVIEW

In challenging and austere environments, having access to the latest tactical information is critical to mission success. The Rugged Cellular Gateway (RCG) is a body-worn computer and wireless communications platform designed to capture and deliver essential mission data to users operating at the extreme tactical edge.

CAPTURE

Reveals the invisible.

The RCG receives data from numerous on-board and third-party sensors simultaneously and without interference. Primed and agile, the unit accommodates existing and evolving sensor technologies, allowing access to all available data sources.

TRANSMIT

Keeps you connected.

Operating on commercial or private LTE networks and utilizing spectrum agile connection technology, the RCG facilitates communication at all times, even in situations where traditional technologies may fail.

COMMAND

Helps you make better decisions, faster.

The RCG helps define, predict, and advise based on data captured locally or transmitted from a command centre, providing the ability to refine and optimize mission strategy in real time.

- Command
- Control
- Communications
- Computation
- Cognition
- Cyber



Compatible with
Android™ and Linux.

RUGGED CELLULAR GATEWAY

Power Resilient Battery Life

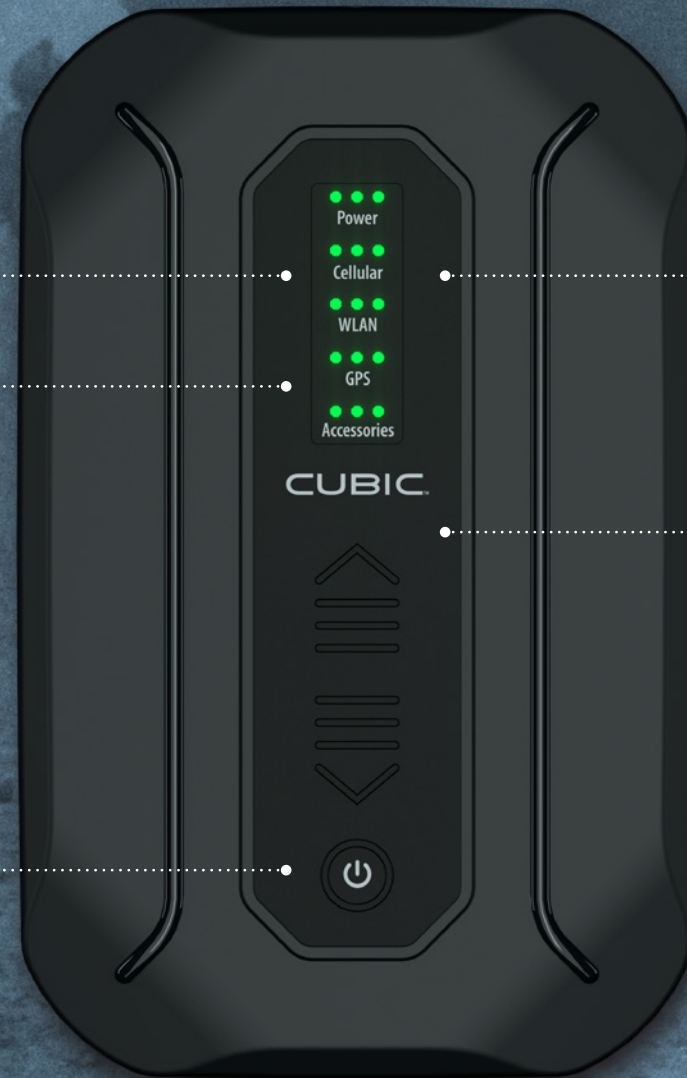
Lasts for days instead of hours, reducing the need for battery replacement and significantly lowering logistical footprint.

High Speed Connectivity

3GPP 5G and 4G LTE Cat 6 up to 300Mbps download and 50Mbps upload speed.

Ergonomic Design

Textured buttons enable easy control, even with gloved hands.



Communication Resilience

Switch between LTE, Wi-Fi and WPAN networks to maintain communications.

Wireless Sensor Support

Connect up to 10 peripheral sensors such as health monitoring and combat systems.

Double Lanyard Feature

The device can be easily stowed in webbing or a pocket, or used as part of a MOLLE capability.

Tactically Tough

IP67 rated and certified to meet MIL-STD, CE and RoHS for deployments in the harshest of environments.

Local Data Processing

Local data processing delivers real-time information to the wearer and reduces data transmission requirements to the command post or training environment.



Spectrum Agile LTE

Seamless connectivity between private and commercial LTE frequencies.

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HOW IT WORKS

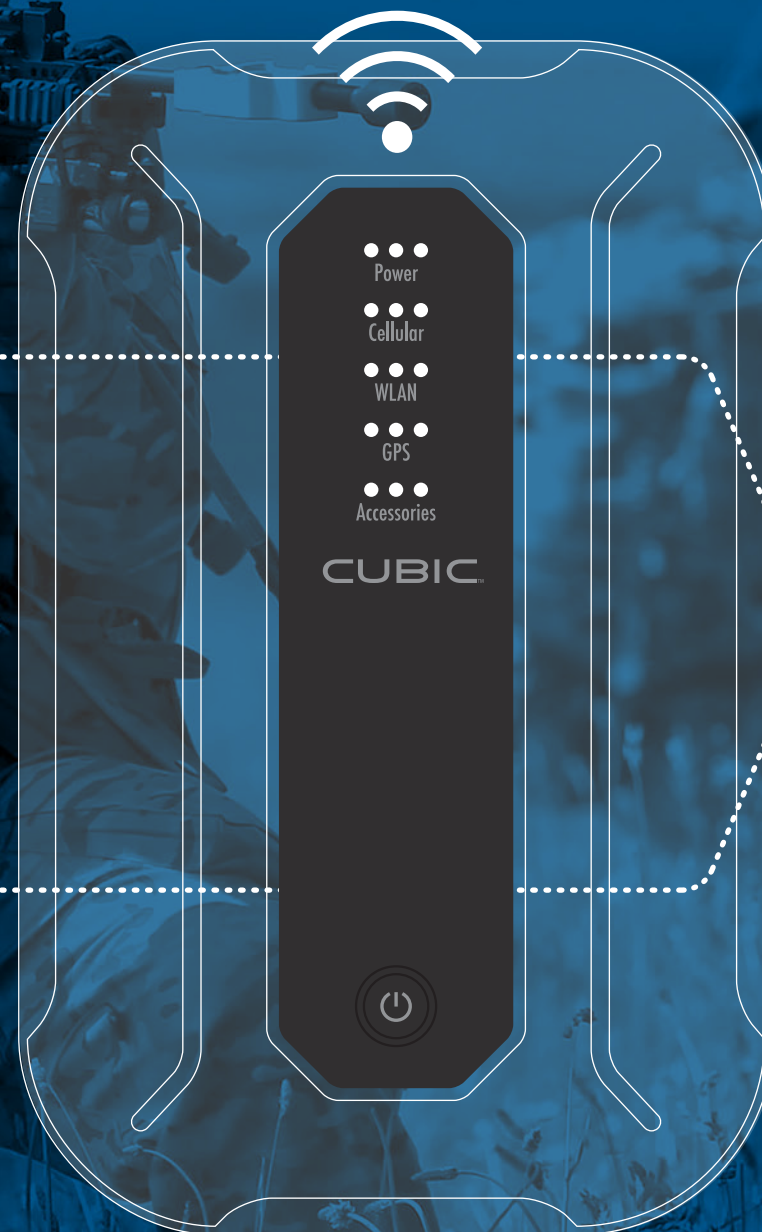
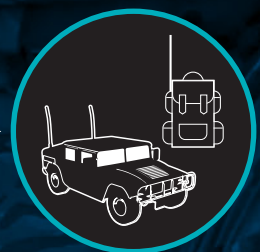
CAPTURE

TRANSMIT

COMMAND

Capture

Data is collected from numerous integrated and wirelessly connected sensors, monitors, and trackers for processing by the RCG and onward transmission, if required. The range of compatible sensors is continually growing and includes personally owned wearables, such as smartwatches and heart rate monitors, as well as supplied equipment.



Transmit

The RCG can immediately identify required data and automatically push it to peripheral communication devices, providing critical information in time-pressured situations.

Additionally, the software can predict and determine the most pertinent data to be shared with commanders for mission effectiveness, identifying when and where the information is needed and routing it accordingly.

Command

Multiple individuals in different locations can receive processed or operational data in real time, enabling distributed commanders to address decisions in a unified way and adapt strategy where needed.

Integrated, intelligent wireless technologies allow for data to be shared locally between multiple RCG units, or via the 5G / LTE networks, with the ability for data and communications to be pushed to an individual device to enable direct commands.

App-based Platform

Benefiting from an open source platform, RCG apps are already available, providing data and sensor handling features. New third-party device integrations and apps are continually being developed to support mission or tactical insight requirements.

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CHALLENGE US

We are committed to delivering effective, flexible control and command solutions, that offer value and meaningful insights to our customers.

The RCG has been designed to be agile, adaptable and customizable to help meet the needs of a diverse range of use cases.

We are keen to push our products further to provide solutions to new challenges. We welcome the opportunity to work together on new training or operational requirements, to build an RCG that is ready for your operational needs.

Get in touch to learn more about what we can offer.

PERIPHERAL DEVELOPERS WELCOME

The RCG has been engineered from the ground up as a platform to be used across multiple industries in a wide variety of applications. Industry standard hardware and open source software provide a secure platform for third-party developers.

Whether you are interested in a custom front panel or you would like to work with us on designing a software application to meet a specific customer need, the RCG platform is ready when you are.



ARMED FORCES



EMERGENCY SERVICES



INTERNATIONAL AID

RUGGED CELLULAR GATEWAY

CUBIC CELLULAR ECOSYSTEM

The RCG is a part of the evolving Cubic Cellular Ecosystem, delivering advanced wireless technologies in a cohesive network of sensors, personnel, and equipment. The Cubic Cellular Ecosystem enables the capture and dissemination of information across diverse devices in multi-domain environments simultaneously over a secure, reliable wireless network.

Other Cubic Cellular Ecosystem products include:

Cellular Range Extender

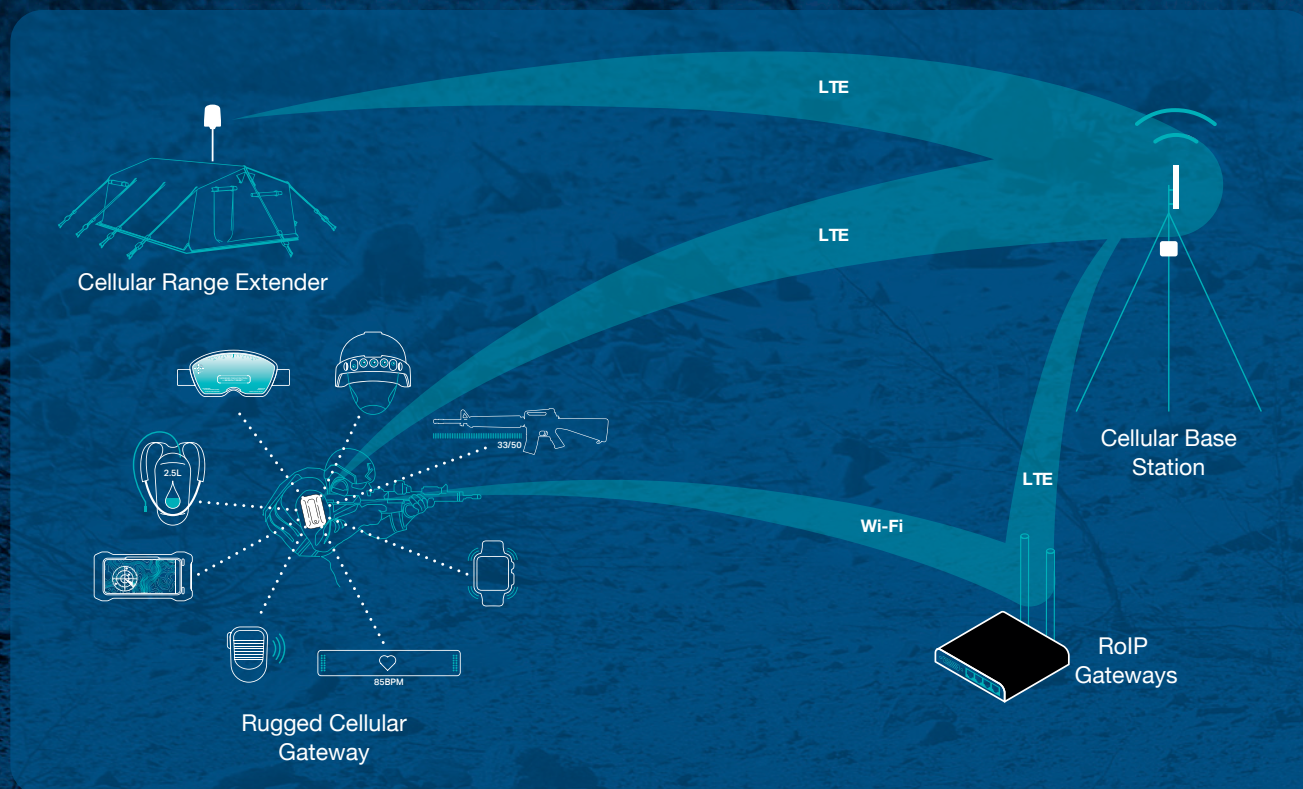
Enables plug-and-play cellular broadband in places where network signals may be inconsistent. Integrated 360-degree multi-beam technology automatically selects and maintains a cellular network signal by focusing and steering its antenna gain in the direction of the Cubic Cellular Base Station, successfully helping to improve connectivity and increase user data rates.

Cellular Base Station

Ruggedized LTE base station that operates on a range of commercial and private LTE frequencies for wide-area broadband connectivity in austere environments. An optional embedded Evolved Packet Core (EPC) can be hosted within the base station to deliver a complete private cellular network in a compact and easily transportable solution.

RoIP Gateways

Low SWaP RoIP (Radio over IP) gateways bridge the gap between disparate radio types, building a single, unified radio system for Land Mobile Radio connectivity, no matter the radio brand, frequency, or technology. The Integrated LTE connectivity seamlessly integrates radios with the latest dispatch and Push-To-Talk over Cellular apps to provide LMR connectivity over great distances.



ABOUT CUBIC

With over six decades as an industry leader, Cubic is a technology-driven, market-leading global provider of innovative, mission-critical solutions that increase operational effectiveness and readiness through superior situational understanding.

We are committed to diversity and inclusion, the unequivocal embrace of different cultures and ideas. Diversity and inclusion make our teams stronger and help us implement the best ideas while supporting our corporate value of “creating excellence together”.

We create excellence together. Through teamwork and collaboration, we will find the best solutions and achieve excellence.

We are innovative. We start by listening and building empathy for our customers. Our creative, talented teams deliver customer-centric, state-of-the-art superior solutions, faster than the competition.

We are trusted and relied upon. We pride ourselves on our impeccable ethics and keeping our promises. Our team members serve as trusted partners to our customers and fellow peers by being transparent, responsive, and innovative.

OUR PEOPLE

At Cubic, the entrepreneurial spirit of our team members drives the leading, innovative technologies of the future. It is how we keep our organization adaptive in a rapidly changing world.

With over 6,000 team members around the world, our diverse team and family-oriented culture fosters success and drives the power of collaboration with our partners and customers.

Our team members embody our Mission, Vision, Purpose and Values every day to help our customers and partners solve their most challenging problems.



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