Cyber VauLTE™
Secure Communications Networks

RIVA Networks and Information Assurance Specialists (IAS) have partnered to produce a secure private wireless network. **Cyber VauLTE™** is a COMPLETE military-grade, deployable cellular solution optimized for minimum SWAP. The solution delivers anywhere-anytime secure cellular, Wi-Fi or wired comms to forward deployed operations.

The **Cyber VauLTE™** router from IAS has been validated by the NSA's Commercial Solutions for Classified (CSfC) program and when configured properly, is approved for up to Top Secret communications.

Cyber VauLTE™ combines a tactical cellular bubble with secure backhaul for voice and data (NSA validated Suite B IPSEC) to other cellular bubbles or back into HQ.

Connecting smartphones to the **Cyber VauLTE™** allows users to communicate without registering with commercial cell towers (no attribution). **Cyber VauLTE™** systems are available with 3G, 4G or Software Defined Radio bands programmable to meet mission requirements.

IAS MICRO Extreme

*No-attribution **Cyber VauLTE™** bubble for voice, text and data*
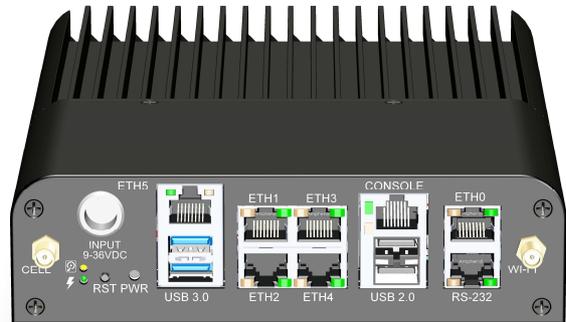
The **Cyber VauLTE™** solution includes:

> IAS Router MICRO Extreme (CSfC).
> RIVA cellular base station radio(s).

The IAS Router MICRO Extreme is an IP router that also performs the role of a Virtual Machine (VM) Server Hypervisor to host RIVA Networks' Call Control software directly on the router's firmware (Patent Pending). This unique VM capability eliminates the need for additional computers, making the **Cyber VauLTE™** solution small, light and ultra-deployable.

IAS routers are flexible and allow for multiple WAN configurations including:

- One or more Ethernet interfaces.
- One or more commercial 3G/4G cellular modems for encrypted backhaul.
- Built-in Wi-Fi access point to support multiple local devices.
- NSA validated **CSfC** architecture and crypto for secure backhaul of voice and data over any public cellular or Wi-Fi networks.

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The **Cyber VauLTE™** solution is small, light-weight and scalable. In its smallest configuration, the **Cyber VauLTE™** solution is 6.5" wide, by 9" deep, by 3.6" tall, and weighs under 10 lbs. with a single Software Defined Radio module (3G or 4G LTE cellular transceiver). The **Cyber VauLTE™** solution has the flexibility to adapt to various mission requirements. To add different bands, more network technologies or more users, simply add the additional transceivers needed. Each transceiver is a 6.5" wide, by 9" deep, by 1.8" tall device.

Avoid transmitting call data, device location or content over commercial networks - where they can be data mined or intercepted.

RIVA Networks' Call Control Core software enables secure, private cell phone networks anywhere on earth.

Cyber VauLTE™ offers low SWAP, ease of use, flexibility and reasonable cost.

The RIVA Call Control Core software supports:

- 3G and 4G LTE network technologies.
- Handsets, public SIM cards or private SIM cards, or a hybrid of both.
- Thousands of users with no additional licensing (simply add additional transceivers as needed).

The **Cyber VauLTE™** offers customers the most robust IPSEC VPN cryptographic mode on the market, known as NSA Suite B IPSEC. The Suite B mode of IPSEC is so strong mathematically that the NSA has approved this VPN technology as robust enough to protect up to Top Secret classified information. The **Cyber VauLTE™** offers other VPN modes, ensuring it is compatible with most enterprise VPN Gateways.