CRiB

Universal Command & Control Terminal

Key features

▪ Useable on the move / transportable
▪ Wave Relay® MANET
▪ Windows & Android Support*****
▪ BLOS connectivity

* Android only runs on Internal Wave Relay MPU5.

Used for

▪ Blue force tracking & battle management
▪ Voice communications
▪ UAV / UGV control and viewing platform
▪ Viewing full motion video (**FMV**) from sensor assets
▪ Connectivity for LOS / BLOS communications

Overview

Developed by Steatite to be highly mobile, easy to use and quick to deploy, the CRiB provides a smart command and control system ideal for tactical operations. With the ability to maintain full connectivity whilst on the move, the CRiB ensures that commanders keep up with the battle picture.

With support for both Windows and Android operating systems, the CRiB can independently display both systems across the dual screen configuration. Additionally, there is also a HDMI output port for a 3rd display or projector.

Playing an integral part of any Mobile Ad Hoc Network (**MANET**), the CRiB provides an instant viewing terminal for full motion video (**FMV**), situational awareness and other sensor data, all from one convenient HQ management platform. The built in LTE enabled Cisco router, provides the CRiB with an instant reach back to the headquarters as well as providing secure access to enterprise services from across the globe.

The CRiB can also be used for Push-to-Talk voice or provide a Video Telephone Conference, allowing for crystal clear communication between multiple talk groups either individually or simultaneously. The built in BB2590 battery packs in the CRiB provide the capability to maintain continuous operation whilst on the move.

Specifications

Contruction	Rugged IP67 Aluminium Case (**exterior**). Padlockable lid. Tie down eyelets. Lockable latches.
CPU	Intel® 14nm 8th Generation Mobile Core™ i7-8665UE (**15W**).
Memory	32GB DDR4 Memory (**2 x 16GB DDR4**).
Storage	1TB SSD.
Operating System	Windows 10. Internal Wave Relay MPU5 runs Android 9.0.
Display	2 x 19.5" toughened 1920 x 1080 monitors with individual button controls (**Contains EMC filters**). External monitor connection via HDMI.
Keyboard	Integrated keyboard with integrated hula pointing device, and USB connection for external mouse, both of which can be switched between connection to the PC or the MPU5.
Camera	Onboard camera and microphone.
Speaker	Onboard stereo speakers.
I/O	Amphenol connector C016 3+1 2 x Panel Socket (**For Radio Audio/PTT**). C016-20 G003-100-12.
Data Rate	Up to 150 Mbps (**MPU5 to MPU5 local Wave Relay RF link**).
Waveform	Advanced Wave Relay® multicast algorithms. Seamless layer 2 network connectivity. Integrated serial-to-ethernet capability. Cloud Relay™. IPv4 and IPv6 compatible. Integrated DHCP server. USB RNDIS host and device. RF modulations: OFDM (**64-QAM, 16-QAM, QPSK, BPSK**).
GPS - Built In	3.3V active. Situational awareness. Cursor-on-target compliant. 1 second updates.
Cloud Relay (Wired / LTE Link)	CTR-AES-256 encryption. HMAC-SHA-256 authentication & integrity. Integrated hardware cryptographic acceleration. Utilises Suite-B algorithms. Cryptographically authenticated over-the-air rekey and key zero. Rechargeable 30 day hold up for keys and configuration settings.
MPU5 (RF Link)	FIPS 140-2 Level 2.
3 x 3 MIMO Technology	Extended range. 100 Mbps of throughput. Maximal ratio combining. Spatial multiplexing.
Video	HD-BNC connection. 3G-SDI & composite input. Integrated HD H.264 video encoding / decoding.
UPS	Integrated UPS power system with 2x295Wh BB-2590 batteries greater than 4 hours runtime.

Power	90-264Vac (**47-63 Hz**) AC supply. System can be powered by 20-36Vdc if AC Power supply is bypassed.
External Connectors (I/O)	**PPT/EUD port:** Dual active PTT channels. End user device (**EUD**) data/charging. USB host/RS-232 serial. HD video output. **Data port:** USB on-the-go. RS-232 serial. Ethernet. HD video input. **RoIP port:** Legacy radio tethering. Legacy radio detection. USB host/RS-232 serial. **Video-in port:** HD-BNC connection.
Modular Radio	Swappable radio modules / radio boards. Software configurable bandwidths (**5 MHz, 10 MHz and 20 MHz**). TX/RX operating modes (**SISO, 2x2 & 3x3 MIMO**).
Frequency Range & Transmit Power	Interchangeable frequency module (**ordered separately**): L-Band: **1350 - 1390 MHz (10W).** S-Band: **2200 - 2500 MHz (10W).** C-Band (**Lower**): **4400 - 5000 MHz (6W).** C-Band (**Upper**): **5000 - 6000 MHz (4W).**
Bandwidth	Configurable bandwidths (**5MHZ, 10MHz and 20MHz TX/RX**).
Management Information Base (MIB)	Enhanced 3G MIB. ENTITY MIB. IF MIB. 3G WWAN MIB persistence.
Dimensions	140 cm (**L**) x 51 cm (**W**) x 27.5 cm (**H**).

ⓘ **CRiB_Datatsheet_08-2024_Rev2.pdf**
Steatite will work with our customers to gain a clear understanding of their