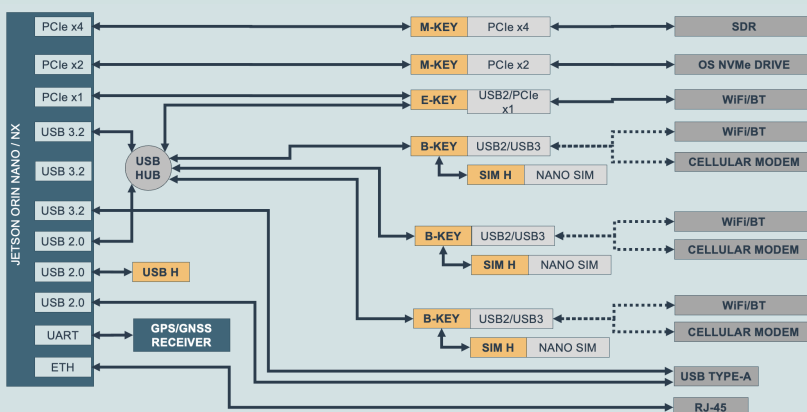




Metrea's CANARY is a non-ITAR, low SWaP, affordable single board computer (SBC) built for versatility and ease of use. CANARY mitigates gaps in flexibility and expansion when compared to similar products. CANARY supports a wide range of projects, from simple home automation to complex pen-testing from Windows or Linux based operating systems. CANARY supports remote command and control operations through cellular, WiFi, and satellite communications.

MAX Field Upgradeability

CANARY is remote controllable and upgradeable with the ability to exfiltrate data to a remote cloud providing flexibility for operations, near-real-time analysis, and command and control (C2) of multiple devices simultaneously.



Hardware Capabilities

CANARY, with its low profile 7x7 inch form factor and 5 M.2 expansion slots that are fieldswappable (snap on/off modules) and offer unmatched adaptability and multiple configurations. The base configuration includes two Wi-Fi and Bluetooth modules, two LTE/5G modems, and an additional expansion slot for general purpose software defined radios (SDR). Software licenses provide a streamlined interface, enabling non-expert users to execute various remote wireless communication activities.

CANARY boasts an NVIDIA Jetson Orin module. These performant modules support options for 4GB-16GB of RAM, 6-8 Arm Cores, 512-1024 Ampere cores, and 16-32 Tensor Cores.

Key Features

- Future-proof Protocol Configurations
- Wi-Fi / Bluetooth / Cellular (2G-5G)
- DMR
- OT/ICS
- IoT
- Modular hardware for multiple requirements Snap on/off radio and sensor modules
- Diverse M.2 slots
 - 3x B-key connectors / 1x E-key connector / 1x M-key connector
- External SMA and RP-SMA RF connectors
 - Configurable mission specific antennas /
 - Configurable external RF amplifiers
- Secure by design – Tamper sensors
- Remote C2 via cellular, Wi-Fi, Satellite Communications
- Automated Data Flow and Remote Storage
- Ruggedization: IP67 sealing, passive thermal management

Supported CEMA Actions

- Cellular (2G-5G) survey
- Wi-Fi Access Point & Client survey
- Network Association
- Cyber Effects
- Enabling/ Bridging Operations
- Bluetooth Survey

SWaP

- Size: 6.75"L x 7.25"W x 3.5"H Weight: 6lbs
- Power: 9-36 VDC Input, 20-52W consumption based on configuration
- Typical WiFi survey consumption is 10W