SBCM

Soldier Borne Compute Module

The SBCM (Soldier Borne Compute Module): an innovative Nett Warrior hub designed for seamless integration, for both man carrying and vehicle mounting. Pioneering the convergence of computing prowess and versatility, the SBCM empowers soldiers with the ability to command multiple EUDs effortlessly. With its integrated compute module and Nett Warrior hub, alongside the flexibility of attaching two additional twist on batteries that mount directly onto the module, the SBCM redefines tactical computing. Harnessing the power of open architecture software, developers can unlock endless possibilities for programming and customization, ensuring adaptability for evolving missions.

Mechanical

Finish	Black Anodized Aluminum
Weight	1.2 lbs / 550 g (Without batteries)
Dimension	5.71 × 3.45 × 1.57 inches / 145 × 87.6 × 39.8 mm (W x H x D)
Mounting	Body worn or vehicle mounting

Product HID

IO	4 x Nett Warrior receptacle, 1 x Nett Warrior plug, 2 x SRM dock, 2 x Twist-on batteries
Communications under bracket	RJ45, USB-A, USB-C, 40 Pin expansion port, DC Barrel Jack
Internal interfaces	M.2 2280 (4 lanes), M.2 2230 (1 lane), M.2 B key (USB only), SIM Card Slot
Power priority selector	Off/MBITR/Nett Warrior Power

Computation

Board	Jetson Orin NX 16GB
AI Performance	157 TOPS (trillion (10^{12}) Operations Per Second
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR5 102.4GB/s
Storage	NVMe SSD (500GB Standard, different size can be requested)
Power	10W - 15W - 25W - 40W

Environmental

Built To standards	MIL-STD-810-H
Ingress rating	IP65 (with bracket)
Compliance	CE compliant
Operating temperature	-20°C to +50°C (*Charging above 10° only)

Electrical

Nett warrior battery	Power input
Nett warrior port	EUD compatibility with Nett warrior interface (1x EUD, 3x PAN)
IMBITR slot	Hot Swappable dynamically balancing ruggedized battery port
SRM Dock	Swappable Radio Module with common mechanical and electrical interface
USB-C	Dev Port for Jetson Orin NX Module
USB-A	USB port for Jetson Orin NX Module
RJ45	ETH for Jetson Orin NX Module
40 Pin Expansion port	Display Port, USB 3.2, I2C, UART
DC Barrel Jack	DC power input 10-20V

Power

Voltage Requirements	10-20 Volt DC (Input Protected)

Suggested Accessories

Battery	2x MBITR
Power supply	Nett Warrior AC charger (110-230V)