



# 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	Micro SD, M.2 2280 (4 lanes), M.2 2230 (1 lane), M.2 B key (USB only)
Power priority selector	Off/MBITR/Nett Warrior Power

### Computation

Board	Nvidia Orin NX
AI Performance	21 TOPS (trillion (10 <sup>12</sup> ) Operations Per Second
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
CPU	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3
Memory	16 GB 128-bit LPDDR4× 59.7GB/s
Storage	16 GB eMMC 5.1 (expandable)
Power	20W

### 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 Nvidia Orin NX Module
USB-A	USB port for Nvidia Orin NX Module
RJ45	ETH for Jetson NX Module
40 Pin Expansion port	Display Port, USB 3.2, I2C, UART
DC Barrel Jack	DC power input

### Power

Voltage Requirements	10-20 Volt DC (Input Protected)
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### Suggested Accessories

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