

Tomahawk™ RAID



The RAID System integrates the comprehensive features of the Tomahawk Ecosystem, including AI-enhanced common control, open architecture, and advanced networking. It is a fully wearable solution designed for ISR to precision strike missions, housed within a durable, submersible chassis optimized for the warfighter.

Leveraging the Tomahawk Ecosystem, the RAID System delivers robust networking and edge processing capabilities, enabling AI-enhanced functionalities for the warfighter. Additionally, the RAID System facilitates the redistribution of data from UxVs and other systems as AI-enhanced intelligence across the tactical network.

_Specifications

[MECHANICAL]

FINISH	Cerakote, color Tungsten (low glare)
WEIGHT, CHASSIS	5.97 lbs [2.71 kg] (no modules, no batteries)
WEIGHT, FULL	12.5 lbs [5.68 kg] (chassis plus 4 modules and 2 batteries)

DIMENSIONS	10.9 in x 14.6 in x 1.9 in [276.9 mm x 370.8 mm x 48.26 mm] Curved - conforms to ballistic plate
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[ENVIRONMENTAL]

OPERATING TEMP	-20 to 50 °C per MIL-STD-810G
STORAGE TEMP	-40 to 71 °C per MIL-STD-810G
SHOCK	MIL-STD-810G, Method 516.6, Procedure IV
VIBRATION	MIL-STD-810G, Method 514.6, Procedure IV
INGRESS RATING	IP67
ELECTROMAGNETIC INTERFERENCE (EMI)	MIL-STD-461F CE102, CS101, CS114, CS115, CS116, RE102, RS103 MIL-STD-464C 5.3 (Ground)
ELECTROSTATIC DISCHARGE (ESD)	NATO standard AECTP-500, NCS12
WEATHER CONDITIONS	Sand and Dust: MIL-STD-810G, Method 510.5, Procedures I & II Salt Fog: MIL-STD-810G, Method 509.5 Rain: MIL-STD-810G, Method 506.5, Procedure I

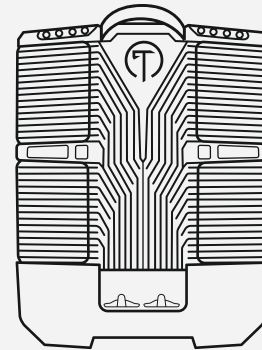
COMPLIANCE	CE, RoHS
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[PROCESSING]

GPU	NVIDIA Jetson Xavier NX (384-core NVIDIA Volta GPU)
CPU	6-core NVIDIA Carmel ARM 64-bit
STORAGE	512GB NVMe SSD

[CONTROL INTERFACE]

ANDROID APPLICATION	Configure RAID modules, toggle/reset power, status, and networking settings
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[ELECTRICAL]

RAID POWER CONSUMPTION	25 W Max
RUN TIME	6-7 hours, depending on loadout and mission profile
POWER MANAGEMENT	55 W continuous, 100 W peak (depends on installed modules) Individual monitoring and control of all power inputs/outputs with RAID Android Application)
ADDITIONAL CONNECTIONS	Nett Warrior, Dual PTT, SMA Connectors, NW+ EUD Port

_Key Features

- > Modular Open Systems Approach
 - > Designed as a MOSA system with Government-owned ICDs yielding vendor-agnostic RAID modules
 - > Optimized for the mission at hand with field-swappable, customized load-outs
 - > Generic Scavenge Power, MBITR and Harris 163 Battery Compatible
- > Edge Compute
 - > Fully compatible with the Kinesis App Store to extend mission capabilities
 - > Integrated NVIDIA Xavier NX GPU – enables powerful AI at the edge
 - > Simultaneous AiTR analytics can run on all video and data feeds
- > Network Bridging
 - > Smart routing/crossbanding gives users networked live video and PLI of UxVs through TAK/ATAK
 - > Intuitive, visual network interface enables an easy understanding of the network
- > MOLLE mount system for operator wearability