TOMAHAWK ROBOTICS™

Powered by Kinesis™

IxM™
IOP Expansion Module

The IxM leverages the Army's RAS Interoperability Profile (IOP) to expand the capabilities of unmanned ground systems through modular payload integration. Upgrading any system, legacy or new, with an IOP compliant node is now possible as a simple bolt-on payload.

Specifications

Electrical
- 22 to 50 VDC input voltage range
- Dual output ports (125 W each)
- IOPv3 38999 Series III
- Configurable output voltages
  - IOP 12, 24 and 48 VDC
  - Custom options available
- 10/100 Mbps managed switch
- Dual RS-232 ports
- Integrated circuit protection

Mechanical
- Dimensions: 7.36" x 4.00" x 3.24"
- Weight: 3.64 lbs
- Mounting options:
  - Picatinny Rail
  - ¼-20 1" optical plate

Environmental
- Operating temperature -20°C to 60°C
- MIL-STD 810G shock/vibration
- IP67 sealed enclosure
- 15 kV HBM ESD protection
- RE/CE101, RE/CE102 compliant

Additional Capabilities
- Webpage configurable interfaces
- Remote firmware update capability
- Voltage and current monitoring
- CBRNE to JAUS data conversion
- Disruptor and camera control

The rapidly changing requirements of soldier systems have driven the need for modular unmanned systems. Modular systems allow for quicker adoption of new technology and distributed computing capabilities through a common networked architecture.

The IxM enables an extension of the network to address both legacy and future systems that require additional connectivity to the Army's modular payload network (RAS IOP).

IxM operates seamlessly from unfiltered battery or DC rails. Its internal voltage regulation for add-on modular payloads provides excellent isolation, performance, and adherence to RE & CE requirements.

Designed from the ground up, IxM functions as both a retrofit kit for legacy systems as well as providing additional capability and payload expansion for current programs such as MTRS Inc2, SMET, CRS-I, CRS-H, and Leader-Follower.