

MICRO

IP Router

The **MICRO** is a portable, rugged, enterprise-class IP router/VPN Gateway/IDS appliance that enables access to secure voice, data, and video services over commercial network technologies, including Ethernet, Wi-Fi, Cellular, MANET, and SATCOM. Designed for edge-of-network and tactical applications, the MICRO is built rugged to withstand operating in harsh environments and wide temperature ranges.



IAS Router Operating System

At the core of the MICRO, you will find our robust, high-performance, secure IAS Router Operating System (ROS). IAS ROS was custom developed from the ground up to support military, government, and edge of network deployable communications use cases. It uses patented WAN technology management capability providing Communicators:

- ◀ Failover/failback across multiple WAN technologies, including Ethernet, 4G/5G Cellular, Wi-Fi, and SATCOM
- ◀ Commercial National Security Algorithm (CNSA) / Suite B IPsec mode of operation
- ◀ Support for up to two 802.11ac and 802.11ax Wi-Fi 6 radios as either a traditional Wi-Fi access point and/or Wi-Fi client/WAN
- ◀ User accessible SIM slots that require no tools to change
- ◀ Simple to use, web-based Graphical User Interface (GUI) and Command Line Interface (CLI)

Certifications

- ◀ NSA Commercial Solutions for Classified (CSfC)
- ◀ FIPS 140-2 Level 2 Validated
- ◀ NIAP Common Criteria Certified

Applications

- ◀ Law enforcement, fire departments
- ◀ Remote workers, senior Government officials, corporate executives
- ◀ Emergency responders, first responders, public safety

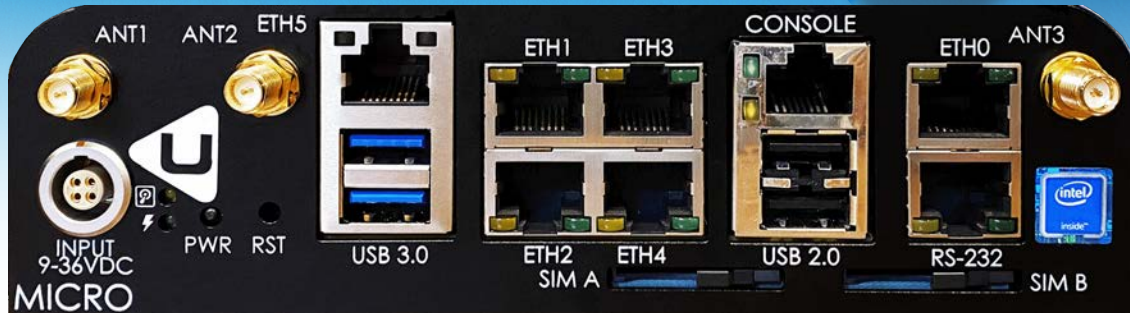
Key Features

- ◀ Six Gigabit routed Ethernet ports
- ◀ Built-in Wi-Fi radio that can be used as a Wi-Fi client (to consume public Wi-Fi hot spots), Access Point, or both simultaneously
- ◀ Up to two built-in cellular radios
- ◀ Two USB 3.0 ports for expanding port density by adding additional USB to Ethernet dongles or external cellular radios via Android device USB tethering



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Specifications

- ◀ Size: 9" x 6.5" x 1.8" (L x W x H)
- ◀ Weight: 3.5 pounds
- ◀ Machined aluminum enclosure

Power

- ◀ Wide Range Dirty DC Input: 9 ~ 36 VDC
- ◀ Power Consumption: <30 watts (excluding PoE)
- ◀ (1) 802.11af Power over Ethernet (PoE) port
- ◀ PSU: 100~240 VAC 50/60Hz

WAN Technology

- ◀ (6) Gigabit routed Ethernet ports
- ◀ (2) USB 2.0, (2) USB 3.0
- ◀ (1) 802.11ac or 802.11ax Wi-Fi client and/or Access Point (Optional)
- ◀ Support for up to (2) built-in 3G/4G/5G cellular radios

Environmental

- ◀ Operating Temperature: -20°C ~ +70°C
- ◀ Storage Temperature: -40°C ~ +85°C
- ◀ Operating Humidity: 5% ~ 95%

VPN Technology

- ◀ Commercial National Security Algorithm (CNSA)
- ◀ SSL VPN (OpenVPN interoperable) based IP networking function and application server based virtual machine technologies

Security

- ◀ Deep Packet Inspection
- ◀ Advanced Firewall Functionality
- ◀ Intrusion Detection/Intrusion Protection

Routing Protocols

- ◀ IPv4 and IPv6
- ◀ DHCP Client Server
- ◀ Network Address Translation (NAT) PMAC Filtering
- ◀ Open Shortest Path First (OSPF)
- ◀ Protocol Independent Multicasting (PIM)
- ◀ Next Hop Resolution Protocol (NHRP)
- ◀ Generic Routing Encapsulation
- ◀ Virtual LANs (VLANs)
- ◀ Quality of Service (QoS)
- ◀ IGMP
- ◀ NTP Server and Client

Configuration

- ◀ Web Browser based GUI
- ◀ SNMP v3
- ◀ Syslog Server Reporting

