# Graphite
## IP Router

The Graphite is an enterprise-class IP router/VPN Gateway/IDS appliance based on the 3U Open VPX (VITA 65 Compliant) form factor. Designed for edge-of-network and tactical applications, it is built rugged to withstand operating in harsh environments and wide temperature

### SUB-U IAS Router Operating System

At the core of the Graphite, 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

◀ Advanced routing protocols such as OSFP, BGB, Multicast, VLANs, etc.

◀ Deep packet inspection, advanced firewall functionality and SSL VPN obfuscation capabilities Support for enterprise-grade advanced routing protocols and capabilities

◀ Simple to use, web-based Graphical User Interface (GUI) and Command Line Interface (CLI)

### Specifications

◀ Form Factor: 3U Open VPX (VITA 46, VITA 48, VITA 65-compliant)

◀ 3U VPX Profiles: Supports MOD3-PAY-2F2T-16.2.5-2,3 and MOD3-PAY-2F2U-16.2.3-2,3

◀ Operating Temperature: -40°C to +85°C (-40°F to 185°F)

◀ Power Consumption < 15 watts

### Certifications

◀ NSA Commercial Solutions for Classified (CSfC)

◀ FIPS 140-2 Level 2 Validated

◀ NIAP Common Criteria Certified
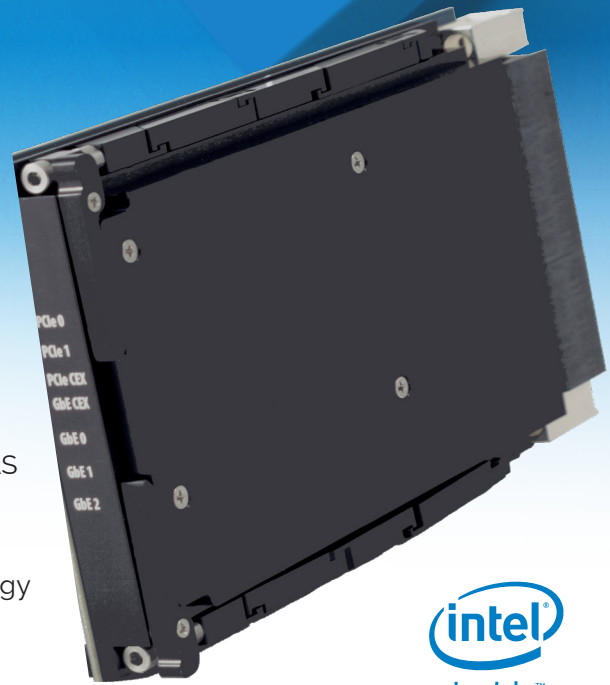
### Features

◀ (5) Gigabit Ethernet

◀ (2) SATA interfaces, for firmware boot image or file storage (when used with optional IAS ROS FTP server)

◀ (2) USB 3.0 and (8) USB 2.0 interfaces for cellular modems use, Ethernet port density expansion, or USB authentication to the device

◀ (2) RS-232 interfaces for legacy WAN technology

## SUB U SYSTEMS