

VOYAGER/m-Series

Since its launch in 2012, Voyager has become the leading rugged deployable communications solution for many government and first responder organisations around the world.

With a wide range of low SWaP, common form-factor network modules, including Cisco-based routing and switching, compute, cellular, and radio integration, Voyager's scalability has proven ideal for supporting small to large team deployments using the various Voyager chassis options.

Measuring just half the height of a standard Voyager module, m-Series provides the same technology with lowered SWaP while remaining compatible with the standard Voyager form factor. The m-Series increases the flexibility and scalability of the Voyager system and you can better tailor its features to meet your requirements.



KEY FEATURES

Voyager m-Series delivers compute, switch, route, and connectivity modules in a 1" high compact form factor. The m-Series is designed to be:

- Low powered, up to 22 W (m-Series compute)
- Lightweight, less than 2.2 lb (m-Series compute)

- Compact, half the height of a standard Voyager module
- Rugged, built to TrueTactical™ standard



SECURE



PORTABLE



RUGGED

VOYAGER/m-Series

Voyager m-Series Modules



VoyagerVMm 2.0 Compute Module

- Built on AMD Ryzen V2516 (Zen 2 x86 CPU with Radeon™ Vega GPU)
- Integrated security (on-chip AMD Secure Processor)
- 16 GB RAM or 32 GB RAM options
- VIK+ SED removable NVMe storage device
- High power efficiencies
- 4K HD video support at 60Hz
- Multithread support for VDI and cloud-based services
- Passively cooled, ideal for low noise environments
- Long life cycle — AMD Ryzen V2516 in production up to 2030



VoyagerVMm 1.0 Compute Module

- Intel processor (i3-5010U/ i7-7600U)
- Supports virtualization
- Platform for Riverbed WAN Acceleration, Twisted Pair WAVE, Cisco IPICS,
- Cisco 5921 software router
- NIAP CC Certified



VoyagerEMm Radio Over IP Module

- Four RJ45 radio ports supporting Press to Talk (PTT) and Squelch (SQL)
- Lightweight aluminum construction
- Two Ethernet ports on the front panel and one on the rear panel
- Support for a handset/headset/speaker such as the H-250
- Toggle switch allows switching between radio 1 - 4 and adjusting the volume level
- VoyagerEMm4 enables use in a standard Voyager chassis slot
- VoyagerEMm8 consists of two EMm modules in a standard Voyager form factor



VoyagerESm Switch Module

- Embedded Klas Layer 2 switch with additional Layer 3 functionality
- Port security, 802.1x, STP, IGMP, SNMP
- Voyager Ignition Key (VIK) functionality



m-Series Adaptor (KVMAm-Eth)

- Rugged anti-shock, vibration-proof power adaptor for m-Series modules
- Provides access to an Ethernet port on network modules
- Uses standard Amphenol MIL-DTL-26482 PT02 circular connectors
- Rugged aluminum enclosure



VOYAGER/m-Series

Specifications



COMMON

- **Size:** 7.4" W x 5.7" L x 1.0" H (188 mm x 145.2 mm x 26 mm)
- **Compliance:**
 - MIL-STD-810
 - IEC 60529,
 - MIL-STD-461
 - FCC Part 15B
- **Power:** 10-18 VDC input

VoyagerVMm 2.0

- **Ordering information:**
 - 16 GB RAM: KLAS-VOY-VMm2-A
 - 32 GB RAM: KLAS-VOY-VMm2-B
- **Weight:** 2.2 lb / 1.0 kg
- **Operating temp:** -32° C to 50° C
- **Ports:** 1 x RJ45 console, 6 x copper Ethernet, 5 x 2.5 Gbps RJ45 (incl. 2 x PoE), 1 x rear port, 2 x USB 3.0, 1 x DisplayPort, 1 x VIK+
- **Electrical:** 22 W, 10 - 18 VDC
- **CPU:**
 - AMD Ryzen™ Embedded V2516 with Radeon™ Graphics
 - CPU base frequency: 2.1 GHz
 - 6-core, 16 GB RAM or 32 GB RAM
- **Management:** BIOS & hypervisor CLI over console and DisplayPort
- **Storage options:** 1 x 1 TB VIK+

VoyagerVMm 1.0

- **Ordering information:**
 - 5th Gen i3 CPU: KLAS-VOY-VMm-i3
 - 7th Gen i7 CPU: KLAS-VOY-VMm-i7
- **Weight:** 2.2 lb / 1.0 kg
- **Operating temp:** -30° C to 50° C
- **Ports:** 1 x Console, 3 x Gigabit Ethernet front ports, 1 x Gigabit Ethernet on the rear, 2 x USB 3.0, 1 x DisplayPort++, 1 x VIK, 1 x SSD
- **Electrical:** 20 W power consumption
- **CPU:**
 - 5th Gen Intel® Dual-Core™ i3-5010U (1.8GHz); 8 GB DDR3 RAM
 - 7th Gen Intel® Dual-Core™ i7-7600U, 4 threads, 16 GB RAM or 32 GB RAM
- **Technology:** IPMI management
- **Storage options:**
 - Samsung 850 EVO 250 GB mSATA SSD
 - Samsung ITB mSATA SSD
- **NIAP Validation Report:** CCEVS-VR-VIDI1436-2024

VoyagerEMm

- **Ordering information:**
 - VoyagerEMm: KLAS-VOY-EMm
 - VoyagerEMm4: KLAS-VOY-EMm4
 - VoyagerEMm8: KLAS-VOY-EMm8
- Approved to operate on DISA's DoD Enterprise Classified Travel Kit Gateway (DECTK-GW)

VoyagerESm

- **Ordering information:** KLAS-VOY-ESM
- **Weight:** 1.8 lb / 0.8 kg
- **Operating temp:** -25° C to 60° C
- **Ports:** 1 x RJ45 console, 4 x Fast Ethernet, 1 x Gigabit Ethernet front port, 1 x Gigabit Ethernet rear port, 2 x USB, 1 x FXS, 1 x VIK
- **Electrical:** 48 VDC input for PoE; 15 W power consumption
- **KRTv4 switch:** Auto-sensing 10/100 BaseT; Cisco Discovery Protocol VLAN; IEEE 802.1Q port VLAN; Multiple Spanning Tree Protocol; Voice & Data VLAN; IEEE 802.1x MAC authentication; Layer 3 features include G.729 transcoding, NHRP, Multipoint GRE DMVPN, OSPF
- **Removable storage:** Voyager Ignition Key (VIK)
- **Management:** KLAS OS 5; SNMP v1, v2, v3

KVMAm-Eth

- **Ordering information:** KLAS-VOY-KVMAm-Eth
- **Size:** 1.61" x 7.40" x 1.02" (40.8 x 188 x 26 mm)
- **Weight:** 0.5 lb (0.23 kg)
- Standard Amphenol MIL-DTL-26482 PT02 circular connectors

Example Configuration

VoyagerDEK

- Small-team kit supporting Type 1 HAIPE Encryptor devices
- Compact form factor to fit into a briefcase or backpack
- Built-in Voyager I+ battery for use in on-the-move deployments
- Simplified management and deployment using VIK+ removable config
- Discreet and lightweight

