

VOYAGER/m-Series

Since its launch in 2012, Voyager has become the standard rugged deployable communications for many US and partner nation operations, traditional military, and first responder organisations. 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 users can better tailor its features to meet their requirements.

Communicate more and carry *even* less with Voyager m-Series.



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 15 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

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VOYAGER/m-Series

Voyager m-Series Modules



Voyager VMm 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
- VIK+ SED removable NVMe storage device
- High power efficiencies (< 15 W)
- 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



Voyager VMm 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



Voyager EMm 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



Voyager ESm Switch Module

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



XRI-MK4

- Voice, video, chat, and console for the Klas Voyager platform
- One interface for controlling all IP and RF comms
- Supports TSM networks and 4 radio nets per module
- Bridges disparate devices in real time
- Agnostic to network, waveform, & device
- Reduces the complexity of installing & maintaining comms

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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

- **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:** 15 W, 10 - 18 VDC
- **CPU:**
 - AMD Ryzen™ Embedded V2516 with Radeon™ Graphics,
 - CPU base frequency: 2.1 GHz
 - 6-core, 16 GB RAM
- **Management:** BIOS & hypervisor CLI over console and DisplayPort
- **Storage Options:** 1 x 1 TB VIK+

VoyagerVMm 1.0

- **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/ 32 GB RAM
- **Technology:** IPMI management
- **Storage Options:**
 - Samsung 850 EVO 250 GB mSATA SSD
 - Samsung ITB mSATA SSD

VoyagerEMm

- Approved to operate on DISA's DoD Enterprise Classified Travel Kit Gateway (DECTK-GW)
- Listed on the DISA UC APL and JITC approved
- MIL-STD-810 compliant
- CSfC compliant
- Red Dot Award for Product Design

VoyagerESm

- **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:** KlasOS 5; SNMP v1, v2, v3

XRI-MK4

- **Weight:** 1.4 lb / 0.6 kg
- **Operating Temp:** -20° C to 70° C
- **Ports:** 1 x USB 2.0, 4 x RJ45
- **Electrical:** 10-18 VDC, 5 W peak power draw
- **Software:** Redcom Sigma 3.2.0

Example Configuration

VoyagerDEK

- Small-team kit supporting both Type 1 HAPE and CSfC-based remote access models
- Compact form factor to fit into a briefcase or backpack
- Built-in battery pack for use in on-the-move deployments
- Simplified management and deployment using VIK+ removable config
- Discreet and lightweight

