

VOYAGER/m-Series

Construction

Key Features

Specifications

Electrical

Datasheet

Since its launch in 2012, Voyager has become the standard rugged, deployable communications solution for many US and partner nation special operations, traditional military, and first responder organizations. 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

Half the height of standard Voyager modules at 7.4" wide x 5.7" deep x 1" high

Low power consumption

Cisco-based technology

Lightweight extruded aluminum construction

Data and power backplane to simplify cabling



Rugged



SECURE



Portable

Voyager m-Series Modules



VoyagerERm Router Module

- Embedded Cisco 5915 ESR
- Full Cisco IOS support including routing, VPN, Call Manager Express, DLEP radio integration & WAAS Express WAN Acceleration



Options

- **VoyagerERm-CPI:** Cradlepoint IBR600NM wireless module with Wi-Fi LAN/WAN, 3G/LTE cellular client
- **VoyagerERm-CP2:** Cradlepoint IBR600P with two external modem antennas and two 2.4 GHz 802.11n Wi-Fi antennas with integrated 3G/4G modem
- **VoyagerERm-NWI:** No wireless module. A blanking plate is provided
- **VoyagerERm-NW2:** No wireless module with two extra front Ethernet ports available



VoyagerESm

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



VoyagerVMm

VoyagerVMm Compute Module

- Intel Processor (i3 or i5 options)
- Supports Virtualization
- Platform for Riverbed WAN Acceleration, Twisted Pair WAVE, Cisco IPICS, Cisco 5921 Software Router



VoyagerEMm

VoyagerEMm Radio Over IP Module

- Four RJ-45 radio ports supporting Press to Talk (PTT) and Squelch (SQL) functions
- 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

Example Configurations



Red/Black Solution

- VoyagerERm black-core router providing connectivity over SATCOM but also commercial Wi-Fi & cellular
- Sled to power HAPE encryption device. Supports KG-250X, KIV-54 or KG-175D (mounted separately)
- VoyagerESm on high-side including VIK functionality



Enclave with WAN Acceleration

- VoyagerVMm compute platform running Riverbed Virtual Steelhead
- VoyagerESm switch for user connection
- Enclave HAPE device
- Optional Cisco 5921 routing on VoyagerVMm



Two Enclaves with Colorless Core

- Simultaneous dual enclave with colorless core
- SATCOM, cellular, Wi-Fi transport options



VoyagerECK

- Executive communications solution with VoSIP and multi-enclave data capability in a small, portable package
- Built-in cellular and Wi-Fi transport options
- Includes removable VoyagerVMm modules

Specifications

Common (unless otherwise stated)

- **Size:** 7.4" W x 5.7" L x 1.0" H (188 mm x 145.2 mm x 26 mm)
- **Operating Temperature:** -25°C to +60°C
- **Compliance:** MIL-STD-810G, IEC 60529, MIL-STD-461E, FCC Part 15B
- **Power:** 10-18 VDC Input

VoyagerERm

- **Weight:** 1.8 lb / 0.8 kg
- **Ports:** 1 x RJ-45 Console, 4 x Fast Ethernet front ports, 1 x Fast Ethernet on the rear, 1 x USB
- **Electrical:** 48 VDC input for PoE; 15 W power consumption
- **Router:** Cisco 5915 ESR (FIPS 140-2 level 1)
- **Management:** Cisco IOS; SNMP v1, v2, v3
- **Wi-Fi:** 802.11n
- **Cellular:** 4G LTE, 3G EVDO, WiMAX, HSPA+, LTE/HSPA+
- Optional modules available

VoyagerESm

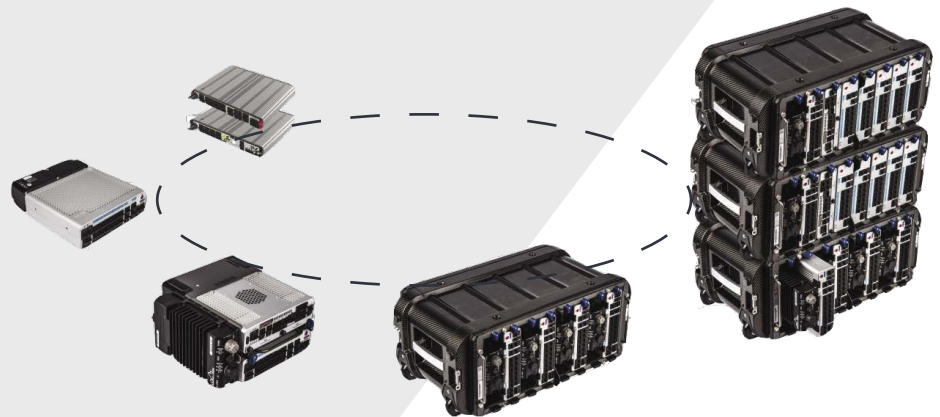
- **Weight:** 1.8 lb / 0.8 kg
- **Ports:** 1 x RJ-45 Console, 4 x Fast Ethernet, 1 x Gigabit Ethernet front port, 1 x Gigabit Ethernet on the rear, 2 x USB, 1 x FXS, 1 x VIK
- **Electrical:** 48 VDC input for PoE; 15 W power consumption
- **KRTv4 Switch:** Auto-sensing 10/100 BaseT; Cisco Discovery Protocol 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

VoyagerVMm

- **Weight:** 2.2 lb / 1.0 kg
- **Operating Temperature:** -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 Options:**
 - 5th Gen Intel® Dual-Core™ i5-5350U (1.8GHz); 32 GB DDR3 RAM
 - 5th Gen Intel® Dual-Core™ i3-5010U (1.8GHz); 8 GB DDR3 RAM
- Intel vPro / IPMI; Intel Virtualization Technology; IPMI management
- **Storage Options:**
 - Samsung 850 EVO 250 GB mSATA SSD
 - Samsung ITB mSATA SSD option also available

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-810G compliant
- CSfC compliant
- Red Dot Award for Product Design



By maintaining compatibility with the standard Voyager form factor, m-Series modules can form the core of an increased capacity network system

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