



KLAS TELECOM



VOYAGER MCAT

COMMUNICATE MORE
CARRY LESS

VoyagerMCAT provides a High-Grade L-3 TRL Mini-CATAPAN and Cisco IOS router in a portable form factor. The Mini-CATAPAN is approved for use in UK and International markets to encrypt IP traffic while the Cisco 5915 ESR provides voice, video and data services to the user. Compatible with Klas Telecom's Voyager form factor, VoyagerMCAT functionality can be easily expanded to add switching, compute and storage options.

VoyagerMCAT - making secure connectivity easier.



Front view showing Voyager m-Series module with Mini-CATAPAN on top



Rear view showing the Voyager 1 battery module attached to the VoyagerMCAT



VoyagerMCAT showing the Mini-CATAPAN and Voyager 1 battery module removed

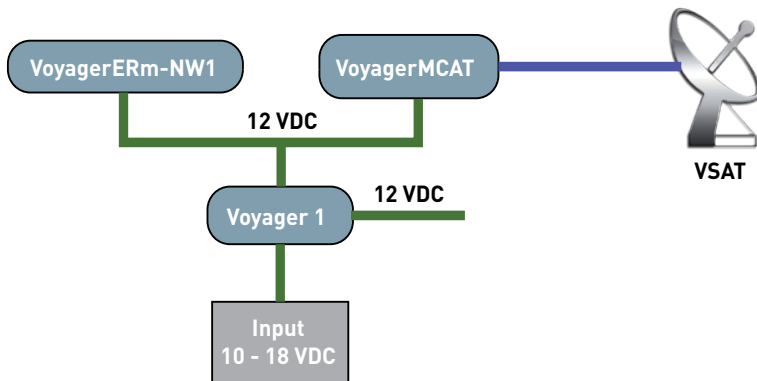
Key Features

- Voyager m-Series module with integrated L-3 TRL Mini-CATAPAN
- Battery-backed with built-in charger
- Power over Ethernet (PoE) for VoIP phone
- Compatible with Voyager module format

Sample Configuration Options

The following sections show typical configurations for the VoyagerMCAT.

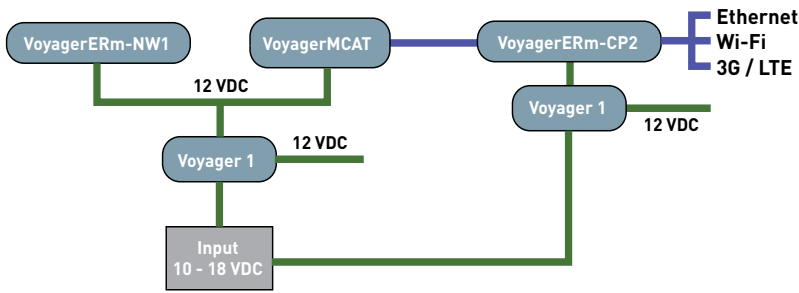
SATCOM Bundle (VoyagerMCAT-SB)



Components:

- Voyager Chassis MCAT ERm Bundle (P/N: VOY-1-MCERm-R1.0)
 - VoyagerMCAT Chassis (P/N: VOY-CHASMCAT-R1.0)
 - VoyagerERm-NW1 (P/N: VOY-ERm-5915-NW1-R1.0)
 - Voyager 1 (P/N: VOY-CHAS1-R1.0S)

Internet Bundle 1 (VoyagerMCAT-IB1)

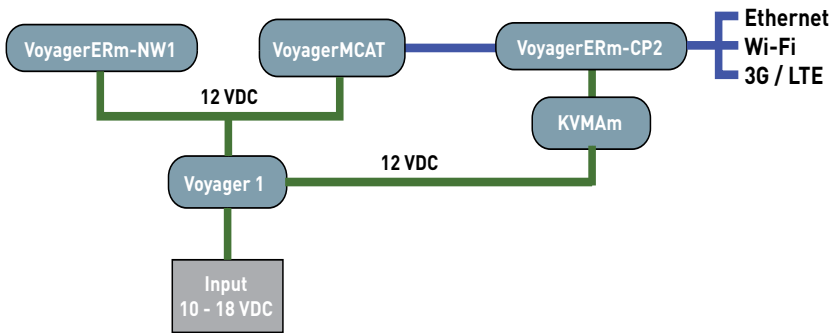


Components:

- VoyagerMCAT ERm Bundle (P/N: VOY-1-MCERm-R1)
 - VoyagerMCAT (P/N: VOY-CHASMCAT-R1.0)
 - VoyagerERm-NW1 (P/N: VOY-ERm-5915-NW1-R1.0)
- Voyager 1 (P/N: VOY-CHAS1-R1.0S)
- VoyagerERm-CP2 DUM MOD Bundle (P/N: VOY-1-ERm-CP2-DUM-PB-R1.0)
 - VoyagerERm-CP2 (P/N: VOY-ERm-5915-CP2-R1.0)
 - Voyager Dummy Module (P/N: VOY-DUMm-R1.0)
 - VoyagerPB (personality bracket) (P/N: VOY-KVPB2-R1.0)
 - Voyager 1 (P/N: VOY-CHAS1-R1.0S)



Internet Bundle 2 (VoyagerMCAT-IB2)



Components:

- VoyagerMCAT ERm Bundle (P/N: VOY-1-MCERm-R1)
 - VoyagerMCAT (P/N: VOY-CHASMCAT-R1.0)
 - VoyagerERm-NW1 (P/N: VOY-ERm-5915-NW1-R1.0)
- Voyager 1 (P/N: VOY-CHAS1-R1.0S)
- VoyagerERm-CP2 (P/N: VOY-ERm-5915-CP2-R1.0)
- KVMAm (P/N: VOY-KVMA-m-PW-R1.0)



Specifications

VoyagerMCAT

Physical Specifications

- 7.4" W x 6.3" L x 2.2" H (188 mm x 160 mm x 56.5 mm)
- 3.5 lb / 1.6 kg

Electrical Specifications

- 10 - 36 VDC input
- Battery backup available internally or through Voyager 1
- Mini-CATAPAN is powered from device

Transport

- Ethernet uplink for connection to XeBRA X-Band terminal

Voyager 1

Physical Specifications

- 7.4" W x 1.65" D x 2" H (188 mm x 42 mm x 52 mm)
- 1 lb / 0.48 kg

Charge Voltage

- 10-18 VDC

Output

- 12 V and 48 V outputs to backplane connector
- 12 V output via Fischer 5-way D103A54 to power Haipe

Operating Temperature Range

- Charge: 0°C to 40°C
- Discharge: -20°C to 60°C

Storage Temperature Range

- -20°C to 50°C

VoyagerERm-NW1

Physical Specifications

- 7.4" W x 5.7" L x 1.0" H (188 mm x 145.2 mm x 26 mm)
- 1.8 lb / 0.8 kg

Electrical Specifications

- 10 - 18 VDC input
- 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

VoyagerERm-CP2

Physical Specifications

- 7.4" W x 5.7" L x 1.0" H (188 mm x 145.2 mm x 26 mm)
- 1.8 lb / 0.8 kg

Electrical Specifications

- 10 - 18 VDC input
- 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

Cradlepoint IBR600P

- Two external modem antennas and two 2.4 GHz 802.11n Wi-Fi antennas
- Integrated 3G/4G modem

Other Voyager m-Series Modules

VoyagerESm

- **Ports:** 1 x RJ-45 Console, 4 x Fast Ethernet, 1 x Gigabit Ethernet, 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

- **Ports:** 2 x Console, 2 x Gigabit Ethernet, 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™ i5-5350U (1.8GHz); 32 GB DDR3 RAM; Intel vPro / IPMI; Intel Virtualization Technology; IPMI management
- **Storage:** Samsung 850 EVO 250 GB mSATA SSD; Up to 540 MB/s sequential reads; Up to 520 MB/s sequential writes