



KLAS
TELECOM



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winner

VOYAGER ECK

COMMUNICATE MORE
CARRY LESS

The VoyagerECK (Executive Communications Kit) provides VoSIP and multi-enclave data capability in a discreet, laptop-sized package. With built-in cellular and Wi-Fi transport options, the VoyagerECK solution is easy to use in accessing secure networks globally. The VoyagerECK can also be deployed as a Commercial Solutions for Classified (CSfC) package.

Based on the Voyager m-Series modules, VoyagerECK provides familiar Cisco-based routing and switching capabilities while maintaining compatibility with existing Voyager chassis options.



KG-250X and five additional red-side data ports accessible through red-side access door



Mini-Catapan accessible through red-side access door



Black-side door provides access to 5915 ESR ports and Wi-Fi/cellular dongle



VoSIP handset and power switch accessible through side door

Main Components

Key Features

- Easy access to VoSIP handset through dedicated door for voice calls even while on-the-move
- Removal of Voyager Ignition Key (VIK) renders the device inoperable for additional security
- Carbon fiber structure provides lightweight but robust construction
- Half the size of Klas Telecom's Executive Voice Kit (EVK)
- Cisco 5915 ESR with Cradlepoint IBR600
- ViaSat KG-250X/Mini-Catapan HAIZE device (kit is also CSfC compliant)
- Cisco-like Layer 3 switch
- Thrane IP handset
- UPS battery backup for all components



VoyagerESm (red side) and VoyagerERm (black side) modules are removable from VoyagerECK chassis



VoyagerERm module based on Cisco 5915 ESR and Cradlepoint IBR600



VoyagerESm module based on Klas Layer 3 switch used in VoyagerESR



VoyagerERm and VoyagerESm can be combined to create a VoyagerESR module compatible with existing Voyager 1, 2, 8 & Express chassis



VoyagerESR



VOYAGER 1



VOYAGER 2



VOYAGER 8



VOYAGER EXPRESS

Voyager m-Series modules

The Voyager range was designed to provide scalable network communications from a single user to a headquarters or command post installation. In the past, this meant that single-user systems had more ports than needed and were therefore too large and too heavy.

Rather than design a new form factor, Klas Telecom has created the Voyager m-Series so that the same sub-modules used in VoyagerECK can be combined for installation in existing Voyager 1, 2, 8 and Voyager Express chassis.

This simplifies maintenance and support of the system, but also means that equipment can be shared among different operational requirements.

Voyager Chassis Range

- Voyager 1 powers a single Voyager module plus a HAIPE device
- Voyager 2 packages two Voyager modules plus HAIPE. Ideal for backpack use
- Voyager 8 powers eight Voyager modules and is designed for command post use
- Voyager Express is a transit case for two Voyager modules, HAIPE, BGAN terminal, and rugged laptop



Key Features:

- Easy access to VoIP handset through dedicated door for voice calls even while on the move
- Pre-cabled for single-button operation
- Built-in cellular reachback
- VPN support using Cisco IOS router
- Internal storage and power for ViaSat KG-250X/Mini-Catapan
- VoIP support using VoIP handset with low-bandwidth codec
- High-side and low-side data ports for laptop, VTC, or VoIP phone connection
- UPS battery backup for all components
- G729 transcoding, NHRP, Multipoint GRE/DMVPN, OSPF

Specification

Primary Components

- Cisco routing on black enclave supporting IOS 15.5
- Layer 3 switch on red enclave supporting 802.1x, IGMP, MSTP, SNMP, DHCP
- Support for GFE ViaSat KG-250X/Mini-Catapan HAIPE
- VoIP handset for red enclave
- Power supply and internal battery

Black Enclave

- 1 x Cisco 5915 ESR
 - 2 Ethernet 10/100 switch ports (FE 0/3, FE 0/4). 1 PoE enabled port
 - 1 Ethernet 10/100 routed port for Ethernet uplink (FE 0/1)
 - 1 Ethernet 10/100 routed port for Wi-Fi/Cellular uplink (FE 0/1)
 - Internal connection to KG-250X/Mini-Catapan CT (FE0/2)
 - 1 Console port
- Cradlepoint IBR600 3G/4G/Wi-Fi router
 - Fully Integrated Router/Bridge
 - Integrated 3G/4G modem
 - Certified for shock and vibration in accordance with MIL-STD-810G and SAE J1455
 - External 3G/4G and Wi-Fi Antennas
 - Ethernet Ports connected to Cisco 5915 ESR internally
 - (LAN/LAN or WAN/LAN)
 - WiFi 802.11 with Full Security
 - AT&T, Verizon, Sprint and International modem variants

Red Enclave

- 1 x KlasOS 5 Layer 3 Switch with ports:
 - 4 Ethernet 10/100 switch ports (FE 1/0 - 1/3). All PoE enabled
 - 1 Ethernet 10/100/1000 switch ports (Gb1)
 - 1 Ethernet 10/100/1000 switch port routed to KG-250X/Mini-Catapan PT (Gb0)
 - 1 FXS VoIP port
 - 2 USB 2.0 ports for connection to E&M or synchronous serial device
 - 1 USB 3.0 port
 - 1 Console port
 - 1 Voyager Ignition Key interface
 - G.729 transcoding, NHRP, Multipoint GRE/DMVPN, OSPF
- KlasOS 5 features:
 - STIG compliant Layer 2 switch
 - IEEE 802.1x Port-based Network Access Control
 - IEEE 802.1Q VLANs
 - Static & dynamic Port Security
 - Spanning Tree Protocol
 - SNMP v3
 - IGMP Snooping
 - Port mirroring
 - DHCP Server

VoyagerECK Physical Specification

- 14.7" L x 8.9" W x 3.3" H (373 x 226 x 83mm)
- 9.2 lb / 4.1 kg (no KG-250X)
- 12 lb / 5.4 kg (with KG-250X)

VoyagerECK Power Specification

- 10-36 VDC Input range
- Supports charging from automobile supply
- 2 hour internal battery power for all components
- PoE on red enclave to support a broad range of VoIP devices

Environmental Specification

- Operating temperature: -10 °C to 55 °C
- Storage temperature: -20 °C to 70 °C

Certification and Approvals

- 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

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