



KLAS
TELECOM



reddot award 2015
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.



VoSIP handset and power switch accessible through side door



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



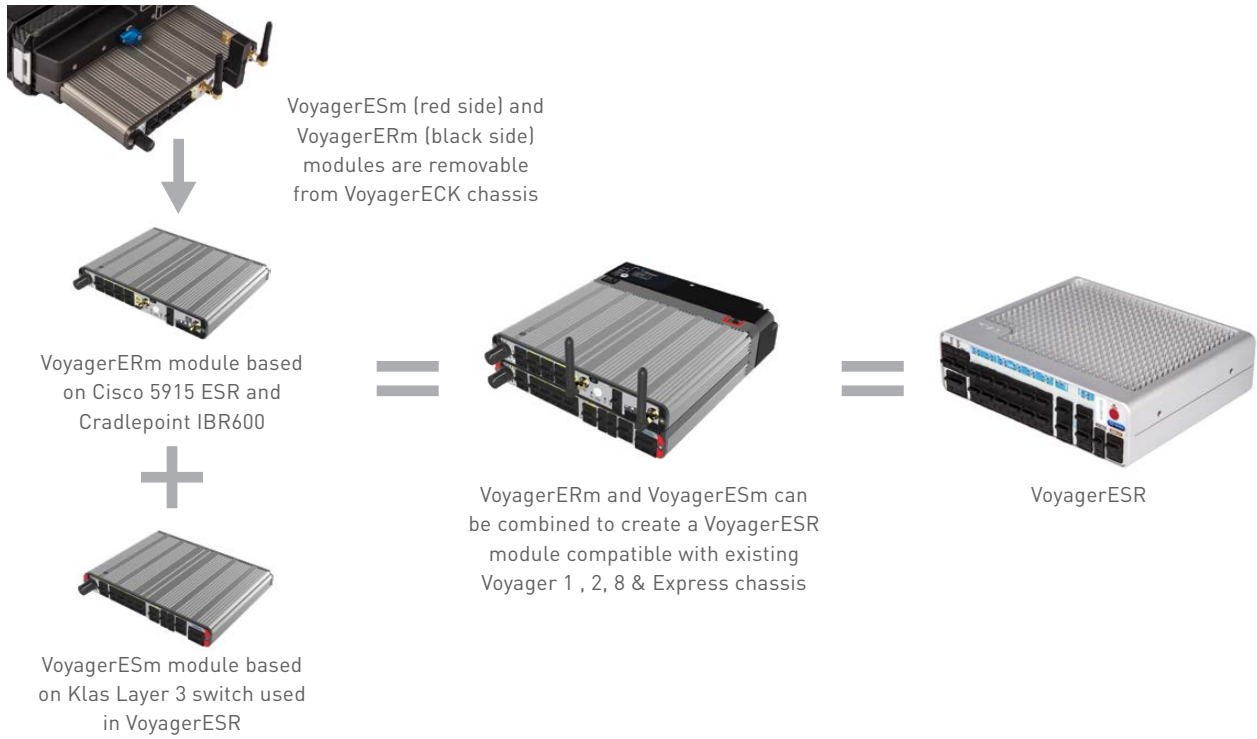
KG-250X and five additional red-side data ports accessible through red-side access door

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)

Main Components

- Cisco 5915 ESR with Cradlepoint IBR600
- ViaSat KG-250X
- Cisco-like Layer 3 switch
- Thrane IP handset
- UPS battery backup for all components



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 VoSIP 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
- VoSIP 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 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 (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 (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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