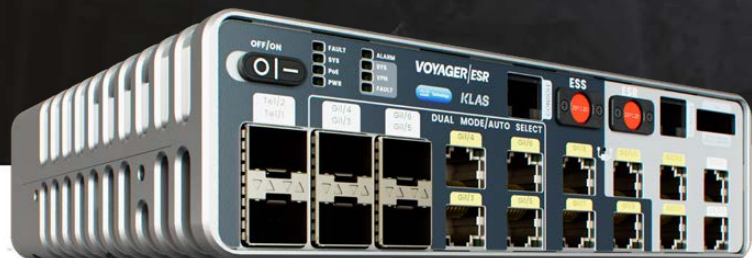# VOYAGER|ESR 2.0

VoyagerESR 2.0 is the ultimate in Cisco hardware routing and switching in a single Voyager module.

Ideal as a WAN-services module or enclave router, VoyagerESR 2.0 provides the reliability needed for the harshest environments.

Now available with Klas' Voyager Ignition Key for increased security and simplified deployment.

KEY FEATURES

- Small form factor Cisco IOS router and switch in Voyager module format

- Cable free internal construction

- Battery-backed ESR and ESS RTCs

- 2 x Gigabit route ports available as either copper RJ45 or SFP

- 2 x 10 Gigabit SFP+ switch ports

- 10 x Gigabit switch ports, where:

  - ESR: 3 x Gigabit Ethernet copper PoE+ enabled switch ports under Cisco IOS control

  - ESS: 7 x Gigabit switch ports of which four are dual mode auto-selecting copper/SFP. Copper ports are PoE+ enabled and under Cisco IOS control

- Layer 2 switching features including: IEEE 802.1, 802.3 standard, NTP, UDLD, CDP, LLDP, unicast MAC filter, VTPv2, VTPv3, EtherChannel, voice VLAN, PVST+, MSTP, and RSTP

- Voyager Ignition Key (VIK) support on the ESR

- Zeroize buttons to return the router and switch quickly to a declassified state

- Cisco IOS XE software with support for Cisco SD-WAN and Unified Communications

- High speed crypto routing acceleration

PORTABLE   **RUGGED**   **LOW POWER**

KLAS

VOYAGER|ESR 2.0

Specifications

ORDERING INFORMATION

- RJ45 route ports: KLAS-VOY-ESR-R2
- SFP route ports: KLAS-VOY-ESR-S-R2

PHYSICAL SPECIFICATIONS

- 7.4" x 6.3" x 2" (188 mm x 160 mm x 52 mm)
- 4.1 lb / 1.9 kg
- Fanless design

ELECTRICAL SPECIFICATIONS

- Input 9 – 36 VDC
- Power consumption 25 W (excl. PoE)
- 44 - 57 VDC input for PoE+ must be provided by the Voyager chassis

LICENSING

- SLR Smart Licensing available at launch
- Upgrades handled through Cisco Portal using UID
- Honor-based NBL model

THROUGHPUT LICENSING

- Three options available:
    - 50 Mbps
    - 250 Mbps
    - > 250 Mbps
- Encrypted and non-encrypted traffic counts towards total
- No throughput restriction on the 4 x 1 Gbps switch ports

PORTS

- 2 x Gigabit route ports (RJ45 or SFP)
- 2 x 10 Gigabit SFP+ switch ports
- 10 x Gigabit switch ports
    - ESR: 3 x Gigabit Ethernet copper PoE+ enabled
    - ESS: 7 x Gigabit switch ports of which four are dual mode auto-selecting copper/ SFP. Copper ports are PoE+ enabled
- 2 x console management ports (ESS/ESR)
- 2 x Zeroize buttons (ESS/ESR)
- 1 x VIK slot (on ESR)
- ESR port Gi0/1/3 connected internally to ESS Gi1/10, with LED link & activity indicator on the front panel

SOFTWARE PACKAGES

Network Essentials:

- Security features:
    - VPN, Crypto Tunnels, IPSec, IKEv2, ssl-vpn
- Baseline features:
    - DHCP, QoS, ACL, EIGRP, IGMP, HTTP, IP Multicast, Radius, TACACS, OSPF, RIP, HSRP

Network Advantage:

- DLEP, BGP, MPLS, BFD, Mobile IP, RSVP, RSRB, SDLC, IP SLA, STUN

CONSTRUCTION

- Aluminum chassis

SWITCHING

Layer 2 features:

- MAC Addresses = 8K
- VLAN IDs = 256
- IGMP Groups = 1k
- Switched Virtual Interfaces (SVIs) = 8
- No. of STP instances = 256
- ACL (PACL, VACL, RACL) = 3K rules total ACLs & QoS

Layer 3 features:

- IPv4 unicast routes (L2 connected & indirectly connected) = 7680
- IPv6 unicast routes (IPv6 only) = 1024
- QoS access control entries (ACEs) = 3K rules total ACLs & QoS
- Active Class-maps (ingress) = 26
- Active Class-maps (egress) = 8
- Wired queues/port = 8 queues
- Buffer/ASIC = 12 Mb/1.5 MB

COMPLIANCE

- NIAP Validation Report Number: CCEVS-VR-VID11394-2023

Designed to meet:

- MII-STD-810
- MIL-STD-461 (RE102, CE102)
- FCC CFR 47 Part 15 Subpart B Class A
- RoHS Directive
- IEC 61000-4-2 & IEC 61000-4-5

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