VOYAGER/ESR

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

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

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

The VoyagerESR 2.0, powered by Cisco's ESR 6300 and ESS 3000, is NIAP CC certified.

KEY FEATURES

- Small form factor Cisco IOS router and switch in Voyager module format.
- Cable free internal construction.
- Both the ESR and ESS RTCs are battery backed.
- 2 x Gigabit route ports available as either copper or SFP (order time option)
- 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, 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 SDWAN and Unified Communications
- High speed crypto routing acceleration

Portable   Rugged   Low Power

KLAS

VOYAGER|ESR
Specifications

Copper WAN

PHYSICAL SPECIFICATIONS

- 6.3" L x 7.4" W x 2" H (160 mm x 188 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 used, where:
  - Voyager 1: provides 10 W of PoE power (48 VDC), sufficient to power one Class 2 PoE phone at 6.25 W
  - each
  - Voyager 2: provides 15 W of PoE power (48 VDC), sufficient to power two Class 2 PoE phones at 6.25 W each
  - Voyager 8: provides 100 W of PoE power (48 VDC), sufficient to power sixteen Class 2 PoE phones at 6.25 W each

LICENSING

- SLR Smart Licensing available at launch
- Upgrades handled through Cisco Portal using UID
- Honor-based NBL model will apply from March 2020

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 (copper 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.

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 ACL's & QoS

Layer 3 features:

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

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

COMPLIANCE

Designed to meet:
- MIl-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

SFP WAN

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