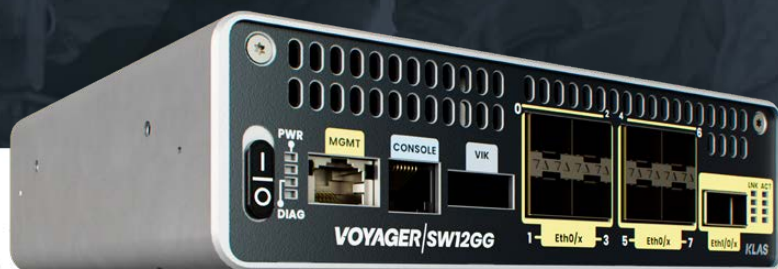# VOYAGER|SW12GG

VoyagerSW12GG is a 12-port 10GbE network switch built on the KlasOS Fastnet switch operating system.

VoyagerSW12GG provides L2/L3 switching, inter-networking trunking with secure network admin access (FIPS 140-2 approved cryptographic algorithms).

Designed to TrueTactical™ standard, VoyagerSW12GG rugged switching provides 121 Gbps backplane speeds for high speed data switching in a standard Voyager form factor for the tactical edge.

KEY FEATURES

- Voyager form factor variant of the VoyagerTDC switch, the first 10 Gbps switch for the tactical market

- KlasOS Fastnet 12-port switch, providing data center-grade switching at the tactical edge

- 121 Gbps backplane for line-speed processing on all twelve ports simultaneously

- 40 Gbps trunk for interconnection with third party switches

- Inter-VLAN routing in hardware at line rate

- 1 x 40 Gbps QSFP+ port for high-speed uplink. Can also operate as 4 x 10 Gbps SFP+ ports using included breakout cable

- Port mirroring, IPFix

- Ansible playbook management supported

- Voyager Ignition Key (VIK) for configuration and storage
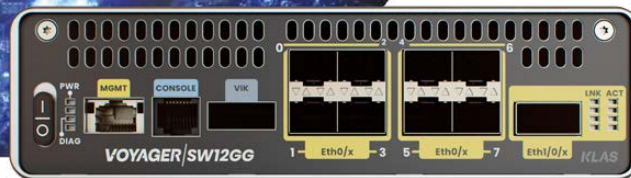
PORTABLE **RUGGED** **LOW POWER**

KLAS

VOYAGER|SW12GG

Specifications

ORDERING INFORMATION

- Part No.: KLAS-VOY-SW12GG

PHYSICAL SPECIFICATIONS

- 7.4" W x 6.3" L x 2" H (188 x 160 x 52 mm)
- 2.9 lb / 1.3 kg

ELECTRICAL SPECIFICATIONS

- 9-36 VDC input
- Power consumption:
  - 12 W using 10 G SFP+ DAC
  - 32.5 W with 8 x 10 GBASE-T and QSFP DAC fitted

PORTS

- 8 x 10 Gbps SFP+ ports
- 1 x 40 Gbps QSFP+ port with breakout cable for 4 x 10 Gbps SFP+ ports
- 1 x 1 Gbps management port
- 1 x Voyager Ignition Key (VIK) port
- 1 x RJ45 serial console port

OPERATING TEMPERATURE RANGE

- -35°C to 50°C (-31°F to 122°F)

STORAGE TEMPERATURE RANGE

- -40°C to 85°C (-40°F to 185°F)

SWITCHING

Layer 2 features:

- 121 Gbps backplane for wirespeed switching on all ports simultaneously
- IEEE 802.1D and 802.1Q-compliant
- Supports up to 32768 MAC Address in the Forwarding Database (FDB)
- 4K active VLANs
- IEEE 802.1w (RSTP) and 802.1s (MSTP)
- Link aggregation (802.1AX/802.3ad) static and dynamic with LACP
- Fast link/LAG failover
- VLAN trunking
- Port mirroring

Layer 3 features:

- IPv4 inter-VLAN routing
- IPV4 static routing

MANAGEMENT

- SNMP
- Ingress and egress port MIB counters
- sFlow (RFC 3176)
- IPFix
- Ansible playbooks

CONSTRUCTION

- Aluminum chassis with external fan for cooling

COMPLIANCE

- Desgined to meet:
  - MIL-STD-810
  - MIL-STD-461
  - FCC CFR 47 Part 15 Subpart B Class A
  - RoHS Directive
  - REACH

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