Voyager 8–X

Voyager 8-X is a smart chassis used to power and protect the Voyager range of high performance computing (HPC) alongside other compact and low-SWaP modules of compute, networking, connectivity, security, and radios.

With wide range AC power inputs and integrated UPS for up to 1000 watts of power distribution, Voyager 8-X supports multiple configurations, such as 2 x VoyagerHPC with GPU modules, enabling users to rapidly configure, reconfigure, and repurpose to meet any mission requirement.

KEY FEATURES

- Supports the full range of Voyager modules to provide:
    - High-performance computing
    - Routing and switching
    - VoIP
    - Server virtualization
    - Radio integration
    - WAN acceleration
    - Storage
    - Satelite, terrestrial, and cellular backhaul

- Integrated compute module for management and monitoring, running Keel, a lightweight Linux-based OS:
    - LCD display that can be configured to show battery status information

- Monitoring of battery state and input power state via SMBus and PMBus
- Reporting of battery and power state
- Leverages Keel, a lightweight OS for secure remote access (SSH), user authentication, and monitoring services (SNMP)
- Built-in KVM-based hypervisor to allow deployment of a GuestOS, such as a lightweight management suite to momitor installed modules

Voyager 8-X
Specifications

CHASSIS

ORDERING INFORMATION

Transit case and chassis:

• Part No: KLAS-VOY-CHAS8-X

Chassis only:

• Part No.: KLAS-VOY-CHASS8-X

PHYSICAL SPECIFICATIONS

• 19" W x 13.8" D x 8.7" H
  (482 mm x 350 mm x 222 mm)

• 18 lb/ 8.15 kg (excluding batteries)

• Battery: 2.8 lb/ 1.27kg

CONSTRUCTION

• Aluminum sheet metal

• Milled aluminum latches

• 19" rack mountable

OPERATING TEMP RANGE

• – 31°F to 122°F (35°C to 50°C)

STORAGE TEMP RANGE

• -40°F to 185°F (40°C to 85°C)
  (without battery)

ELECTRICAL INPUT SPECIFICATIONS

• 90-264 VAC

ELECTRICAL OUTPUT SPECIFICATIONS

• 1000 W distributed to slots, battery charger
  and fans

• 8 x 12 VDC outputs in backplane to power
  modules

UPS

• 15 minute battery backup to enable graceful
  shutdown with audible alarm

• Removable battery pack

COMPUTE MODULE

• Intel Atom x7-E3950 quad core processor
  with 1.6 GHz core frequency up to 2.0 GHz

• 2 MB L2 cache

• 8 GB 2400MT/s LPDDR4 onboard memory
  and 32 GB eMMC onboard flash

• 1 Gb Ethernet and console port interface

• Industrial grade temp range: -40°F to 185°F
  (-40°C to 85°C)

COMPLIANCE

Designed to meet:

◦ IEC 60529 IP67

◦ Built to MIL-STD-461

◦ Built to MIL-STD-810

◦ CE

◦ FCC CFR 47 Part 15 Subpart B Class A

◦ RoHS Directive

◦ IEC 61000-4-2 & IEC 61000-4-5

TRANSIT CASE

SIZE

• 22.5" W x 14.2" D x 10.1" H
  (571 mm x 360 mm x 257 mm)

WEIGHT

• 14.66 lb / 6.65 kg

CONSTRUCTION

• Carbon fiber

• Milled aluminium hardware

• Manual pressure equalization valve

HANDLES

• Retractable extension handle

• Grab handles on top and bottom of case

ORDERING INFORMATION

Transit case only:

• Part No: KLAS-CASE-0018B

Voyager 8-X Rear View With Removable Battery Pack