



# Voyager 8 PLUS

The Voyager 8 PLUS chassis provides uninterruptible power for up to eight Voyager network modules, or up to four secure network enclaves, with wide ranging AC and DC power input. The chassis is housed in a carbon fiber transit case. Modules are severable, may be independently battery backed, and are able to be remotely powered from the Voyager 8 PLUS chassis.

Voyager 8 PLUS systems can be stacked to form a company command post or higher echelon network support package. Further, for Command and Control On The Move (C2OTM), airborne en route, or other rackmount environments, the Voyager 8 PLUS chassis can be removed from the case and mounted in a standard 19" rack using the optional chassis shelf.

# Specifications

## Transit Case

### Size

18.8" x 22.5" x 10.1" (478 x 571 x 257mm)

### Weight

21.35kg (47lbs) (excluding batteries)

### Construction

- Aerospace-grade, carbon fiber monocoque built from single mold structure for maximum strength
- Milled aluminum handles
- O-ring seal around front and rear lids
- Pressure equalization valve

### Handles and Wheels

- Retractable extension handle
- Handles on top and bottom of case
- Dual heavy duty plastic wheels

### Standards

Designed to meet:

- IP67 case
- MIL-STD-810H
- MIL-STD-461G

## Chassis

### Size

5U 19-inch rack (additional chassis shelf required - sold separately)

### Construction

- Aluminum sheet metal
- Milled aluminum latches
- Eight (8) Voyager network module slots (for use with or without Voyager 1 battery attached to modules)

### Operating Temperature Range

-10°C to 50°C

### Storage Temperature Range

-10°C to 85°C

### Input Electrical Specifications

- 21-34 VDC (38 Amp maximum)
- 90-264 VAC (< 10 Amp at 100 VAC)
- Max input current of 10 Amp allowed for NEMA Sockets and Voyager 8 Plus

## Output Electrical Specifications

- 8 x 12 VDC at 120 W and 28 VDC at 120 W. The total slot power is 560W
- 8 x 52 VDC outputs in backplane for PoE support (PoE power available is 200W)
- 2 x AC outputs available when AC input is present - (these outlets are not filtered but are fused to 10 Amp. Please check the powered device for voltage range before using)

## Compute Module

- Intel® Atom™ x5-E3930 dual core processor with 1.3 GHz core frequency up to 1.8 GHz
- 2 MB L2 cache
- 2 GB 2133 MT/s LPDDR4 onboard memory and 16 GB eMMC onboard flash
- 1 Gb Ethernet and console port interface

## UPS

- 3 x BB-2590 batteries (available in high capacity for extended operation or lower capacity to comply with IATA regulations)

## Key Features

Supports the full range of Voyager network modules to provide:

- Routing & switching
- VoIP
- Server virtualization
- Radio integration
- WAN acceleration
- Storage
- UPS
- Satellite, terrestrial and cellular backhaul

Can be configured as a tactical data storage network, tactical radio integration system, cross domain suite and more

Compute module on the rear of the Voyager 8 PLUS runs KlasOS Keel and hence provides many familiar features such as a Cisco-like CLI for management, SSH, SNMP, and a built-in hypervisor. Features include:

- LCD display which 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
- User authentication, SSH access, etc. using the same KlasOS codebase as for Common Criteria approved products
- Built-in hypervisor to allow deployment of a GuestOS, for example, a lightweight management suite to monitor the installed modules



Figure 1: Front of Voyager 8 PLUS Showing 8 Voyager Module Slots



Figure 2: Voyager 8 PLUS Rear