Voyager TDC
Tactical Data Centre

Size, weight and power (SWaP) considerations have limited the processing power that tactical users could leverage on the battlefield. But now, the latest Klas Telecom Voyager technology enables users to deploy enterprise-grade, hyper-converged tactical data storage networks to the field in a single, airline carry-on-size rollaway case. Software-defined storage technologies require processing nodes with maximum compute power and data-centre grade networking

for communications between nodes. Voyager Tactical Data Center (TDC) provides Intel Xeon D processing, 512 GB RAM, 32 physical cores and 10 Gbps networking to provide the best performance possible. Voyager TDC enables collection, storage, replication, and mirroring of large volumes of data such as mapping and imagery files. Additionally, teams in the field can access required data and services without having to rely on bandwidth-constrained backhaul.

COMMUNICATE MORE, CARRY LESS

KLAS
TELECOM

Specifications

System Components
- Voyager 8 transit case with integrated chassis/UPS
- Voyager TDC Sled
- 4× Voyager TDC Blade
- Voyager TDC Switch

Voyager TDC Physical Specifications
- 55.9 × 35.6 × 22.9 cm (W×D×H)
- 25.7 kg (without batteries)
- 28.5 kg (with standard BB-2590 batteries. Lower capacity BB-2590 batteries available for IATA compliance)

Voyager 8 Specifications
Electrical Specifications
- 10-36V DC input up to 400W with MIL-STD 1275D filter
- 90-264 VAC input up to 400 W, 50-400Hz
- Conditioned power provided to Voyager TDC Blades, Sled and Switch
- 2× AC outputs available at rear when AC input is present
- 2× 12V DC outputs at rear
- Uninterrupted failover between AC, DC and battery
- Space for 2× BB-2590 batteries (available separately in high capacity for extended operation or lower capacity to comply with IATA regulations)
- Provides 414 Wh energy of backup

Construction
- Aerospace-grade, carbon fiber monocoque built from single mold structure for maximum strength
- O-ring seal around front and rear lids
- Grab handles on top and bottom of case
- Retractable extension handle
- Lightweight aluminum chassis with integrated PSU

Rackmountable Chassis
- Voyager 8 chassis may be removed from case for rackmount installations in vehicles
- 5U 19-inch rack
- 7.2 kg (without batteries)

Voyager TDC Blade Specifications (4 per System)
Xeon D-1541 Processor
- 8 cores, 16 threads
- 2.1 GHz clock with turbo to 2.7 GHz
- 12 MB cache
- 128 GB 2.4 GHz DDR4

Storage
- Storage caddy supports 1 or 2 SSDs in 2.5" format
- SSD capacities validated: 1.92 TB, 3.84 TB
- Voyager Ignition Key (VIK) removable

Networking
- 2× 10 Gbps Ethernet interfaces
- 2× 1 Gbps Ethernet interfaces
- 1× 1 Gbps Ethernet management interface

Various
- 2× USB 3.0 interfaces
- RJ-45 console port
- VGA grahics support
- Web-based IPMI for remote management

Mechanical
- 18.8 × 19.4 × 6.1cm (W×D×H)
- 2 kg each

Voyager TDC Switch Specifications
- 12× 10 Gb switch ports, 4 of which are available as copper or fiber using SFP+
- 1 Gb management port
- Cisco-like UI based on KlasOS
- 121 Gbps switching backplane
- Layer 2 features include VLAN trunking, Port Security, 802.1x
- Link aggregation and stacking options available

Compliance
- Designed to meet MIL-STD-810G
- -31°C to 49°C
- FCC Part 15B
- CE compliant
- IP65-rated case
- Meets airline carry-on size requirements

Key Features

- Intel® Xeon® D processing with a total of 512 GB RAM and 32 physical cores per Voyager TDC system
- One 12-port 10 Gbps uncontended switch
- Airline carry-on form factor measuring just 56 × 36 × 23 cm (22" × 14" × 9") with built-in UPS
- Removable configuration and storage with Voyager Ignition Keys (VIK) on each Voyager TDC Blade
- Multiple supported and tested Software-Defined Storage architectures:
  - Nutanix Acropolis
  - VMware vSAN
  - NetApp ONTAP Select
  - OpenStack
  - Other architectures validated on request

Voyager TDC front view
1 10 Gbps Voyager TDC Switch
2 8-core Voyager TDC Blade

Removable Voyager TDC Sled and Voyager TDC Blades

Phone   1300 300 340
Email   sales@cistechsolutions.com
Web   www.cistechsolutions.com

Quality
ISO 9001