VoyagerCell Duo

VoyagerCell Duo is a rapidly deployable standards-based 4G LTE base station complete with a virtual machine server that together provide high-speed voice, video and data communications, along with mission-critical, localized applications and services, in a scalable, man-portable package.

VoyagerCell Duo's design guarantees service availability and independence from backhaul for fully self-contained operation while at the same time offering multiple eNodeB, Wi-Fi, vehicle and manpack options for increased flexibility.

Portable

Rugged

Low Power

COMMUNICATE MORE, CARRY LESS

KLAS

Specifications

Cellular Specifications
- Support for LTE Bands 1, 2, 3, 4, 5, 7, 13, 14, 17, 20, 27, 28
- 3 MHz, 5 MHz, 10 MHz and 20 MHz bandwidth options
- 3GPP Release 13

Compute
- Intel 8-Core C3807 processor
- 32GB RAM
- Running on KlasOS Keel Operating System
- Additional GuestOS / applications as required

Interfaces
- 2 x Antenna connectors
- 2 x Antenna (SMA) WiFi
- 2 x Antenna (SMA) Cellular
- 1 x LCD Screen
- 1 x Voyager Ignition Key (VIK+) Storage
- 1 x Gigabit Ethernet compute port
- 1 x Serial console port
- 1 x GPS Antenna Port (SMA)

Physical Specifications
- Milled aluminum construction with fanless cooling
- Base configuration for use in Voyager 8
  - 7.4 x 8.7 x 5.6" (188 x 220.5 x 143mm)
  - 12.8 lb / 5.8 kg
- Manpack with Battery Box Configuration
  - 8.5" x 14. 1" x 5.6" (216 x 359 x 143mm)
  - 18.8 lbs (8.55 kg) (Add 3.1 lb/1.4 kg for 2590 battery)
- Manpack with DC Input Configuration
  - 8.5 x 11.3 x 5.6" (216 x 286 x 143mm)
  - 16.5 lb (7.5 kg)

Compliance
- MIL-STD-810H for:
  - Shock (516.8 - Procedure I)
  - Vibration (514.8)
  - Temperature High (501.7)
  - Temperature Low (502.7)
  - Humidity (507.6)
  - Altitude (500.6)

Safety
- EN 62368-1
- CE (Band 28 only)

Electrical Specifications
- Input 10 – 36 VDC (14 – 36 VDC through battery box connector)
- 96 W (Maximum)
- 3.5 h battery operation with 2590 at 70%Tx (Class 9/ non-IATA compliant)
- Airline carry on battery options available

EMC / EMF
- Radio Equipment Directive 2014/53/EU:
  - EN 301 489-1
  - EN 301 489-17
  - EN 301 489-19
  - EN 301 489-50
  - EN 301 489-52
  - EN 61000: -4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11
  - EN 50663
  - EN 50385

Key Features

- 2 x 5W eNodeb with:
  - 32/100 bearer variants
  - B14 for US Public Safety
  - B28 for Euro Public Safety
  - Built-in x86 compute server with Intel® 8-Core C3708 processor, 32 GB RAM running KlasOS Keel
  - Voyager Ignition Key (VIK+) NVMe based storage with 512 GB capacity for rapid system configuration and reconfiguration by a minimally trained operator
  - Single button operation with LCD screen for operator feedback
  - Optional built-in 3G/LTE modem allows backhaul to MNO network or Wi-Fi modem for connection to 802.11 access point
  - Optional Wi-Fi access point functionality to support 802.11 clients locally, supporting EAP-SIM authentication
  - MIL-STD-1275D transient protection to allow for direct connection to vehicles
- Base system can be mounted and powered from two Voyager 8 backplane connectors while occupying a total of three Voyager 8 slots in total
- Handles and battery box or DC input can be attached for manpack operation

CISTECH SOLUTIONS

Certified System
Quality
ISO 9001
SAI GLOBAL