CISTECH SOLUTIONS

CHANGING THE WAY YOU COMMUNICATE

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 uniquely combines high transmit power with a very small form factor, setting new standards in the Public Safety and First Responder, Military, Oil and Gas, and Mining markets. VoyagerCell Duo has the added benefit of interoperability with the mature Voyager baseband product line that offers route, switch, compute, storage and LMR capability for a cost-effective, complete tactical networking solution that simplifies deployments.

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
- 18.8cm x 22.0cm x 13.4cm
- 5.8kg

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

Electrical Specifications

- Input 10-36 VDC (14-36 VDC through battery box connector)
- 86W (maximum)
- 3.5 h battery operation with 2590 at 80%Tx (Class 9 / non-IATA compliant)
- 3 h battery operation with 2 cell battery unit at 70% Tx (IATA compliant)
- 6 h battery operation with 4 cell battery unit at 70% Tx (IATA compliant)

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:
  - 32/64/100 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 on 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

VoyagerCell Duo with Battery Box Connection

CISTECH SOLUTIONS

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

Certified System Quality ISO 9001 SAI GLOBAL

© Copyright 2020 CISTECH Solutions Pty Ltd. Trademarks mentioned in this document are the property of their respective owners. All rights reserved.