

# STRATUS CONTROLLER



Utilizing Codan Digital Link Controller (DLC) technology, Codan's Stratus Tactical or Fixed Controller provides management of DFSI-capable equipment anywhere in the world with a network connection.

## STRATUS TACTICAL CONTROLLER

The Stratus Tactical Controller is housed in a rapidly deployable, rugged, transportable case which can be used anywhere in the world with a cellular or satellite connection. The portable network connection is achieved using the same LTE modem found in all Stratus Repeaters. The Stratus Tactical Controller provides secure AES128 or 256 bit VPN encryption to all radio traffic including encrypted P25 voice for double encrypted mission critical communications.

Always available and accessible, the Stratus Controller will route calls between multiple Stratus Repeaters. The Controller receives the digital audio and control signals from the VHF/UHF repeaters via the IP link and routes the P25 communications within the network, with all encrypted calls routed transparently.

## STRATUS FIXED CONTROLLER

The Stratus Fixed Controller is the system controller situated at a fixed location anywhere in the world with an Ethernet connection. Software functionality as the Stratus Tactical Controller but with greater processing capabilities.

The Stratus Fixed Controller is an industrial PC in a 1U package running the same Codan DLC software functionality as the Stratus Tactical Controller. The DLC can connect multiple sites via the P25 IP Digital Fixed Station Interface (DFSI) from each Codan Base Station.

## GRAPHICAL USER INTERFACE

DLC programming is managed by a password protected, web-based GUI which also provides online diagnostics.

Software programming of the following capabilities is offered for:

- IP Addresses
- Base Station/Repeater IP Address
- Routing based on NAC or TGID
- Display of call type — analog, P25 clear, P25 encrypted
- Configuration import and export

The web-based GUI also provides the following self-diagnostics:

- Remote site monitoring
- Logs of calls and errors
- Notification of lost IP links
- Software updating from the Codan software download

## KEY FEATURES

- Quickly add and remove repeaters on the network
- Supports VHF, UHF, 700, or 800 MHz band repeaters and base stations
- Compatible with TIA-102.BAHA (DFSI) devices
- Designed for management of Codan UIC DFSI-capable control interfaces
- Network requirements are <100 kbps of bandwidth (per connection)
- All digital P25/LTE/ IP connectivity between CODAN Repeaters and Base Stations

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## SPECIFICATIONS – TACTICAL CONTROLLER

<b>Encryption</b>	DES-OFB / AES-256 (FIPS certified) via VPN
<b>Modes of operation</b>	LTE, 3G
<b>Size</b>	14.2" L x 11.4" W x 6.5" D (36.1 cm L x 28.9 cm W x 16.5 cm D)
<b>Weight</b>	15 lbs (6.8 kg)
<b>Tactical operating temperature</b>	0°C to + 30°C
<b>DC power inputs</b>	10 to 16 V DC
<b>AC power inputs</b>	110/220 VAC (auto-switching) external power supply and/or 12 VDC
<b>Current draw</b>	1.5 A ±10%
<b>LTE modem options*</b>	North American and international bands available
<b>Supported Carriers</b>	Verizon, AT&T, Sprint, Rogers, Bell, Telus, Telstra**
<b>Additional ethernet ports</b>	IKE Encryption – AES-256 capable 1 external standard, 2 optional

\*Various modem options support, please contact Codan for details.

\*\*Other international carriers supported, please contact Codan for details.

## FIXED CONTROLLER

The Stratus Fixed Controller is an industrial PC in a 1U package running the same Codan DLC software functionality as the Stratus Tactical Controller.

## SPECIFICATIONS – FIXED CONTROLLER

<b>CPU</b>	Intel Xeon E3-1200 v5 Series
<b>Memory</b>	4GB DDR4
<b>Storage</b>	HPE Dynamic Smart Array B140i
<b>HPE SmartDrives</b>	Hot Plug (SAS/SATA)
<b>Networking</b>	2 x 1GbE embedded Ethernet Adapter and FlexibleLOM
<b>VGA/serial/USB ports/SD</b>	2 rear USB 3.0, 2 front USB 2.0, and 1 internal USB 3.0
<b>On-premise management</b>	HPE iLO 4 (Advanced/Scale-out/Essentials Optional)
<b>On-cloud management</b>	HPE Insight Online with enhanced mobile application
<b>On-system management</b>	HPE iLO 4, HPE Intelligent Provisioning, HPE System Update Manager (SUM), HPE RESTful Interface Tool
<b>Power and Cooling Standard</b>	290 W power supply; 900 W AC 240VDC redundant power supply
<b>Form Factor/Chassis Depth</b>	Rack (1U) 15.05" (ear to rear)

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

DATASHEET: Codan Stratus Controller, 12-20312-EN, Issue 4, © 2018

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