STRATUS TACTICAL/FIXED SERVER

↗ FEATURES AT A GLANCE

- **Deployable DLC with 4G LTE interface**
- **IP linking over LTE to P25 DFSI consoles and other Stratus repeaters**
- **No hardwired Ethernet connection required**
- **VHF/UHF coverage in buildings and any outdoor location**
- **Quickly add and remove repeaters on the network**
- **Rugged, transportable case**
- **Rapidly deployable**
- **IP 65 Rated**
- **MIL-STD-810G pending**

Based on CODAN Digital Link Controller (DLC) technology, the CODAN Stratus™ Tactical or Fixed Server may be situated anywhere in the world with an Internet/Ethernet connection.

STRATUS TACTICAL SERVER

The Stratus Tactical Server is housed in a rapidly deployable, rugged, transportable case located anywhere in the world with a cellular connection. The portable network connection is achieved using the same LTE modem found in all Stratus Repeaters.

Always available and accessible, the Stratus Server will route calls between multiple Stratus Repeaters. The Server 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 SERVER

The Stratus Fixed Server is the system controller situated at a fixed location anywhere in the world with an Ethernet connection.

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

GRAPHICAL USER INTERFACE

Programming of the DLC is managed by a password protected, web-based GUI which also provides on line diagnostics. Software programming of the following capabilities is offered for:

- IP Addresses
- Base Station/Repeater IP Address
- Routing based on NAC, TGID or Unit ID
- Subscriber Groups and units, Voice logging
- Call type — analog, P25 clear, P25 encrypted
- Configuration Log Print

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

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

STRATUS TACTICAL/FIXED SERVER

TACTICAL SERVER SPECIFICATIONS

Encryption	DES-OFB / AES-256 (FIPS certified) via VPN
Modes of operation	LTE, 3G
Size	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)
Weight	15 lbs (6.8 kg)
Operating temperature	TBD
DC Power inputs	10 to 16 V DC
AC Power inputs	110/220 VAC (auto-switching) external power supply and/or 12 VDC
Current draw	1.5 A ±10%
LTE Modem options	700 MHz Band 13 LTE with fallback to 800/1900 MHz EV-DO 700 MHz Band 17 LTE & AWS Band 4 LTE with fallback to 850/1900 MHz HSPA+
Carrier approvals	Approved for deployment by Verizon, AT&T, Sprint, Rogers, Bell, Telus, Telstra,
Additional ethernet ports	2 RJ45 Ethernet ports IKE Encryption — AES-256 capable

FIXED SERVER SPECIFICATIONS

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

SUMMARY

In summary the Stratus Tactical/Fixed Server provides a new level of digital interconnect between Stratus P25/LTE Repeaters and Base Stations. With the elimination of leased lines, the Stratus Tactical/Fixed Server saves money. Key features include:

- All digital P25/LTE/ IP connectivity between Codan Repeaters and Base Stations
- No E&M-to-IP conversion boxes are required
- Complies with the P25 DFSI standard
- Supports multivendor operation using P25 DFSI
- Supports VHF, UHF, 700, or 800 MHz band repeaters and base stations
- UIC with DFSI capability is required to interface
- Network requirements are <100 kbps of bandwidth (per connection)

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