

STRATUS LITE REPEATER

FEATURES AT A GLANCE



- Secure mobile voice network
- VHF/UHF coverage in buildings and any outdoor location
- Quickly add and remove repeaters on a P25 LMR network
- Rugged, transportable case
- Rapidly deployable
- IP 65 Rated
- MIL-STD-810G pending
- Upgrade path to 4G LTE backhaul interface (with fallback to 3G)

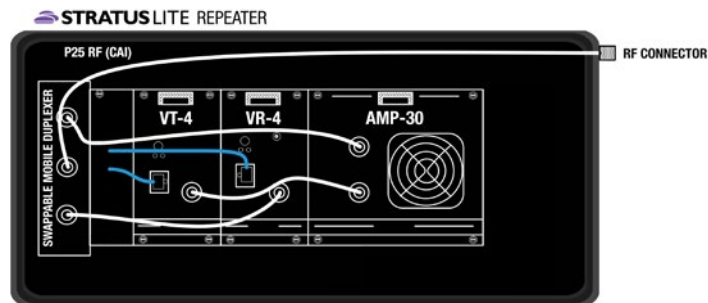
For agencies that require compact, easily deployable P25 repeaters supporting transparent encryption in VHF or UHF bands, the CODAN™ Stratus Lite provides a compact 30 Watt repeater/base station solution. The system can be configured as a repeater, a base station or a repeater/base station combination.

Stratus Lite includes an optional expansion to a full Stratus repeater for a P25/LTE hybrid solution that leverages the strengths of both technologies to provide secure mobile voice networks and integration into an existing P25 network.

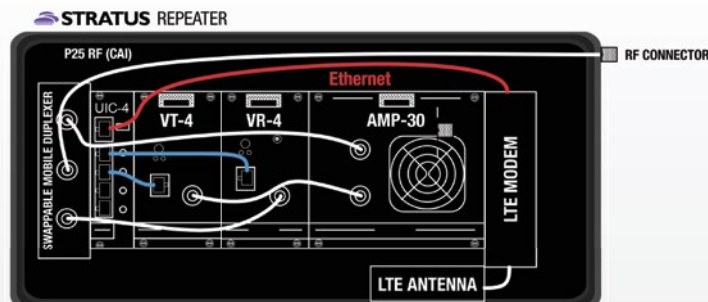
UPGRADE PATH FOR P25 COMMUNICATIONS OVER LTE/4G/3G

The optional upgrade of a Stratus Lite repeater with an LTE modem, Universal Interface Card and the cellular networks optimized P25 DFSI firmware to a full Stratus repeater provides the capability for P25 communications over LTE. This enables Stratus repeaters to automatically link with each other over LTE and to the P25 console via the Stratus Server on a public or private network anywhere in the world to provide P25 wide area coverage and proprietary network integration, ensuring the repeater is never isolated from the P25 network.

STRATUS LITE CONFIGURATION



STRATUS LITE + LTE/3G/DFSI UPGRADE CONFIGURATION



STRATUS LITE REPEATER

QUICK-SWAP DUPLEXERS

The Stratus Lite repeater includes a duplexer module mounted on a swappable quick-swap plate that easily enables a user or technician to change the operating channel of the repeater in the field by quickly swapping out the internal duplexer. An optional antenna relay kit may also be installed instead of a duplexer.

SPECIFICATIONS

Repeater bands	136-174, 380-520, 768-869, 896-960 MHz
Encryption	DES-OFB / AES-256 (FIPS certified)
Modes of operation	Analog, P25, Mixed Mode
Size	19.2" L x 15.2" W x 7.3" D (48.8 cm L x 38.6 cm W x 18.5 cm D)
Weight	29.5 lbs (13.4 kg)
Operating temperature	-40°C to + 60°C (100% Duty Cycle — lid open) -40°C to + 40°C (100% Duty Cycle — lid closed) + 40°C to + 50°C (50% Duty Cycle — lid closed)
Over temperature alarm protection	Turn Off Radio at +67°C, Turn On Radio at +64°C
RF power outputs	Low Power Switching (VHF / UHF only): 12 to 30 W adjustable (15 W standard) 25 W (700 MHz / 800 MHz)
DC power inputs	10 to 16 V DC
AC power inputs	110/220 VAC (auto-switching) external power supply
Current draw	750 mA ±10% (VHF/UHF) 7.0 A ±10% (VHF/UHF)
Voltage protection circuit	Shut-off at 9.0 V DC, turn on at 11.0 V DC
Internal duplexer frequency separation	VHF: 4.5 MHz separation 136–174 MHz VHF: 4.5 MHz separation 400 MHz UHF: 5.0 MHz separation 700 MHz UHF: 30 MHz separation 800 MHz UHF: 45 MHz separation
Environmental	Military Spec MIL-STD-810 IP65

LTE UPGRADE PATH

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
VPN/security	IKE Encryption - AES-256 capable IPsec, SSL, and GRE VPN Client Up to 5 VPN Tunnels Trusted IP MAC Address Filtering

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



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