

# STRATUS

## LITE REPEATER



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For agencies that require compact, easily deployable P25 repeaters with encryption in VHF or UHF bands, Codan's 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/FIRSTNET

The optional upgrade of a Stratus Lite repeater to a full Stratus repeater provides the capability for P25 communications over cellular. This enables Stratus repeaters to automatically link over cellular and to the P25 console via the Stratus Controller on a public or private network anywhere in the world.

### 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.

## KEY FEATURES

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

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## SPECIFICATIONS

<b>Repeater bands</b>	136–174, 380–520, 768–869, 896–960 MHz
<b>Encryption</b>	DES-OFB / AES-256 (FIPS certified)
<b>Modes of operation</b>	Analog, P25, Mixed Mode
<b>Size</b>	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)
<b>Weight</b>	29.5 lbs (13.4 kg)
<b>Operating temperature</b>	–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)
<b>Over temperature alarm protection</b>	Turn Off Radio at +67°C, Turn On Radio at +64°C
<b>RF power outputs</b>	Low Power Switching (VHF / UHF only): 12 to 30 W adjustable (15 W standard) 25 W (700 MHz / 800 MHz)
<b>DC power inputs</b>	10 to 16 V DC
<b>AC power inputs</b>	110/220 VAC (auto-switching) external power supply
<b>Current draw</b>	250mA +/-10% without the UIC (DFS) 375mA +/-10% with the UIC (DFS)
<b>Voltage protection circuit</b>	Shut-off at 9.0 V DC, turn on at 11.0 V DC
<b>Internal duplexer frequency separation</b>	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
<b>Environmental</b>	Military Spec MIL-STD-810 IP65

## LTE UPGRADE PATH

<b>LTE modem options</b>	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+
<b>Carrier approvals</b>	Approved for deployment by Verizon, AT&T, Sprint, Rogers, Bell, Telus, Telstra
<b>Additional Ethernet ports</b>	2 RJ45 Ethernet ports
<b>VPN/security</b>	IKE Encryption - AES-256 capable IPsec, SSL, and GRE VPN Client Up to 5 VPN Tunnels Trusted IP MAC Address Filtering

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