

Stratus repeater

SPEC SHEET

Stratus™ is the first deployable P25/LTE hybrid solution that leverages the strengths of public safety and cellular technologies to provide secure mobile voice networks. Stratus P25 repeaters support transparent end-to-end encryption across an entire communications network. Stratus supports AT&T FirstNet (Band 14) capability and a wide variety of other LTE carriers across the United States and Canada.

Features

- Rapidly Deployable P25 Repeater with optional 4G LTE interface (with fallback to 3G)
- Secure mobile voice network
- Rugged, transportable case
- IP linking over LTE to P25 DFSI consoles and other Stratus repeaters
- Ethernet connection on case (not required for wireless use)
- VHF/UHF coverage in buildings and any outdoor location
- Quickly add and remove repeaters on the network
- IP 65 Rated



P25 Communications over LTE

Housed in a rugged Pelican Case, Stratus integrates a VHF, UHF, 700 MHz, or 800 MHz repeater, Universal Interface Card (UIC) and LTE modem, linking instantaneously into established communications networks without requiring a hard wired ethernet connection.

Remote Coverage Where You Need It

When fixed coverage is not enough due to events like a natural disaster or high network congestion, Stratus can augment your response capabilities on the fly, allowing you to quickly set up safe and secure communications networks even amidst a crisis.

Stratus can also be set up to assist in search and rescue operations in highly remote areas where LMR coverage is unavailable.

In-Building Coverage with External Communications Link

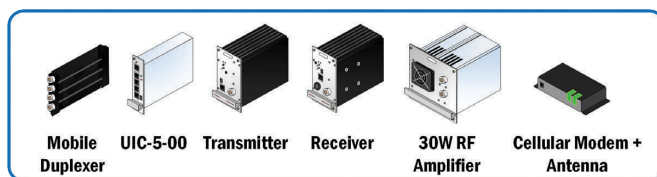
The P25 repeater provides reliable communications coverage within a building, while the LTE modem provides a secure and dependable bridge to an existing P25 communications network. This ensures the repeater is not isolated from the external P25 network.

Rapid Voice Network Deployment

Stratus enables a stand-up, secure voice network to be deployed quickly. With a lightweight and transportable design, multiple Stratus repeaters can be deployed at a site by simply locating the repeaters in the required coverage area. Stratus repeaters will automatically link with each other over LTE and to P25 consoles via the Stratus Controller on a private or public network anywhere in the world.

Quick Network Expansion

Stratus repeaters can be quickly added to an established network without any setup required by the user. Stratus will automatically connect into the network over the LTE connection and establish a link with the dispatch console for immediate tracking and control, and instant communications for the user.



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Specifications

Repeater Bands

136-174 MHz
406 - 520 MHz
768-869 MHz
896-960 MHz

Encryption

Optional: DES-OFB/AES-256 FIPS certified

Modes of Operation

Analog, P25, Mixed Mode, LTE, 3G

Dimensions (HxWxD)

Imperial: 19.2" x 15.2" x 7.3"
Metric: 48.8 cm x 38.6 cm x 18.5 cm

Number of Channels

32

Weight

32 lbs/14.5 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 Outlets

Low Power Switching (VHF / UHF only): 12 to 30 W adjustable
(15 W standard) 25 W (700 MHz / 800 MHz)

DC Power Outlets

10 to 16 V DC

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

136-174 MHz VHF: 2/4.5 MHz separation
400 MHz UHF: 2/4.5 MHz separation
700 MHz UHF: 30 MHz separation
800 MHz UHF: 45 MHz separation
900 MHz UHF: 24/39 MHz separation

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+

Supported LTE Carriers

Verizon
AT&T/FirstNet
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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Always on, always ready