STRATUS
REPEATER

EC CODAN COMMUNICATIONS

Codan's 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. The Stratus P25 repeaters support transparent end-to-end encryption across an entire communications network.

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.

IN-BUILDING COVERAGE WITH EXTERNAL COMMUNICATIONS LINK

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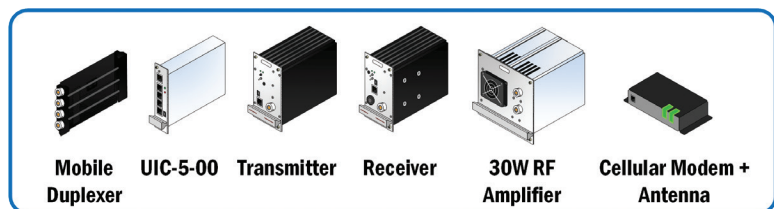
RAPID VOICE NETWORK DEPLOYMENT

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

QUICK NETWORK EXPANSION

A Stratus repeater can be quickly added to an established network without any setup required by the user. A 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.

KEY FEATURES

- Deployable P25 Repeater with optional 4G LTE interface (with fallback to 3G)
- Secure mobile voice network
- 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

| Mobile Duplexer | UIC-5-00 | Transmitter | Receiver | 30W RF Amplifier | Cellular Modem + Antenna |

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COMMUNICATIONS

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, LTE, 3G
Number of channels	32
Size	9.2" L x 15.2" W x 7.3" D (48.8 cm L x 38.6 cm W x 18.5 cm D)
Weight	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 inputs	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 seperation	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
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
Environmental	MIL-STD-810 IP65

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