

Controller

Stratus™ Series



DFSI Management & Control

Utilizing our Digital Link Controller (DLC) technology, the Stratus™ Controller provides management of DFSI-capable equipment anywhere in the world over a LAN or WAN connection.

The Stratus Controller uses the TIA-102 (P25) standard Digital Fixed Station Interface (DFSI) to link to FSI capable devices, such as the Zetron Universal Interface Card (UIC). The Stratus Controller can support both Fixed Station radios using the UIC, or emulate Fixed Station Radios allowing DFSI capable consoles to connect to the Stratus Controller. The Stratus Controller supports multivendor solutions for both radios and consoles through the FSI standard.

The Stratus Controller software enables call and packet routing via NAC or Talk Group ID. Each DFSI connection can have its own mapping to support a wide variety of call paths over DFSI.

Key Features

- Quickly add and remove repeaters to/from the network
- Supports VHF, UHF, 700, 800, and 900 MHz band repeaters and base stations
- Compatible with TIA-102.BAHA (DFSI) devices
- Designed for management of our UIC DFSI-capable control interfaces
- Network requirements are <100 kbps of bandwidth (per connection)
- All digital P25/LTE/ IP connectivity between our Repeater and Base Stations
- Built-in firewall and VPN

Graphical User Interface

DLC programming is managed by a password protected, web-based GUI, which also provides online diagnostics.

Software programming of the following capabilities is offered:

- IP Addresses
- Base Station/Repeater IP Address
- Routing based on NAC or TGID
- Display of call type – analog, P25 clear, P25 encrypted
- Configuration import and export

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

- Remote site monitoring
- Logs of calls and errors
- Notification of lost IP links
- Software updating

Transportability

The Stratus Controller is housed in a rapidly deployable, rugged, transportable case, which can be used anywhere in the world with a cellular or satellite connection. The portable network connection is achieved using the same LTE modem found in all Stratus Repeaters. The Stratus Tactical Controller provides secure AES128 or 256 bit VPN encryption to all radio traffic, including encrypted P25 voice for double encrypted mission critical communications.

Always available and accessible, the Stratus Controller will route calls between multiple Stratus Repeaters. The Controller receives the digital audio and control signals from the repeaters via the IP link and routes the P25 communications within the network, with all encrypted calls routed transparently.

Technical Specifications

Tactical Controller

- Encryption: DES-OFB / AES-256 (FIPS certified) via VPN
- Modes of operation: LTE, 3G
- Weight: 15 lbs (6.8 kg)
- Tactical operating temperature: 0°C to +30°C
- 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*: North American and international bands available
- Supported Carriers: Verizon, AT & T, Sprint, Rogers, Bell, Telus, Telstra**
- Additional ethernet ports: IKE Encryption – AES-256 capable
1 external standard, 2 optional

Dimensions

- Imperial: 14.2" L x 11.4" W x 6.5" D
- Metric: 36.1 cm L x 28.9 cm W x 16.5 cm D

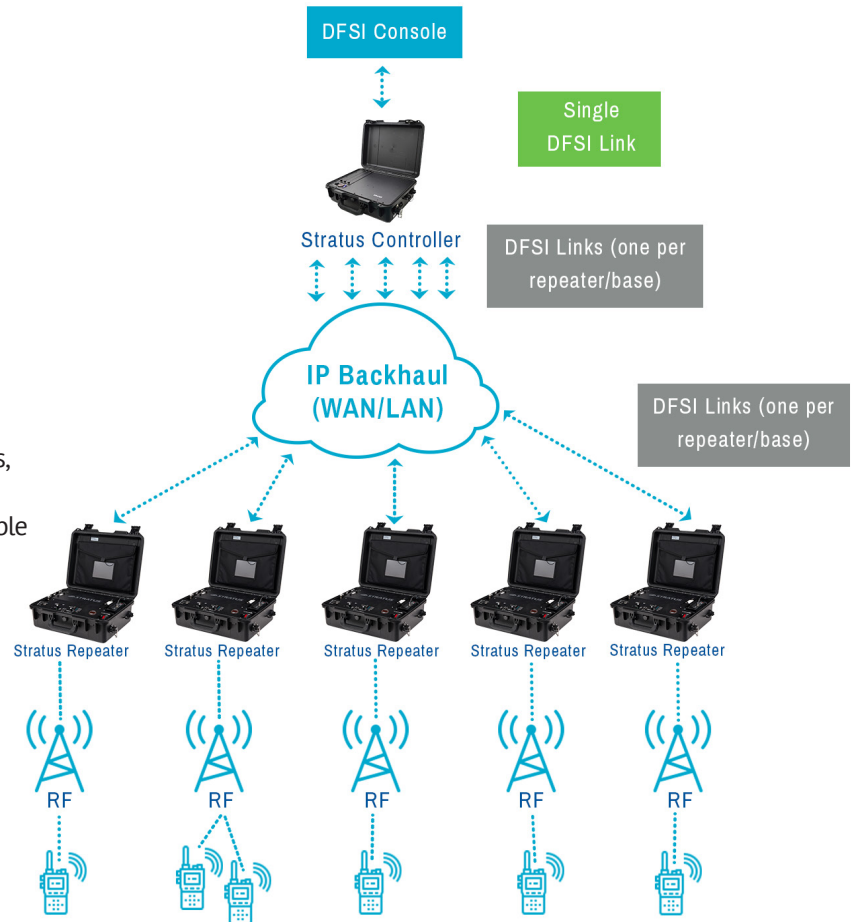


Figure 1. Example Stratus Controller Configuration (5 Site + Dispatch)

*Various modem options supported, contact Zetron for details.

**Other international carriers supported, contact Zetron for details.

ZETRON

ZETRON AMERICAS
PO Box 97004,
Redmond, WA USA
98073-9704
(P) +1 425 820 6363
(F) +1 425 820 7031
(E) zetron@zetron.com

www.zetron.com

ZETRON EMEA
27-29 Campbell Court,
Bramley, Hampshire
RG26 5EG, United Kingdom
(P) +44 1256 880663
(F) +44 1256 880491
(E) uk@zetron.com

ZETRON ASIA PACIFIC
PO Box 3045, Stafford Mail
Centre, Stafford QLD 4053,
Australia
(P) +61 7 3856 4888
(F) +61 7 3356 6877
(E) au@zetron.com



The Power to Respond™

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