

Stratus Controller

SPEC SHEET

DFS 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.

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 Repeaters 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.

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Specifications

TACTICAL CONTROLLER

Dimensions (HxWxD)

Metric: 36.1 x 28.9 x 16.5 cm
Imperial: 14.2 x 11.4 x 6.5 inches

Weight

Metric: 6.8 kg
Imperial: 15 lbs

Tactical Operating Temperature

0°C to +30°C

Modes of Operation

LTE, 3G

Encryption

DES-OFB / AES-256 (FIPS certified) via VPNSensitivity

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*

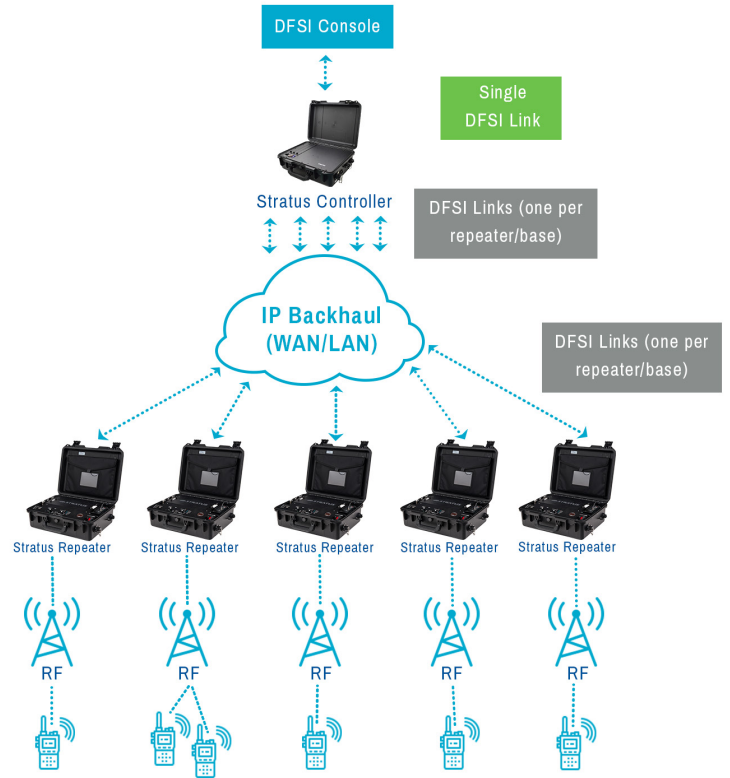
North American and international bands available

Supported Carriers**

Verizon, AT&T, Sprint, Rogers, Bell, Telus, Telstra**

Additional Ethernet Ports

IKE Encryption — AES-256 capable 1 external standard, 2 optional



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Always on, always ready