

Latitude SkyNode

I sistemi di tracciamento e comunicazione satellitare della Latitude Technologies sono installabili su mezzi aerei, navali e terrestri.

Si tratta di una famiglia di sistemi ad architettura variabile in funzione del mezzo su cui l'apparato è imbarcato e delle esigenze di comunicazione e rappresentazione dei dati.

Il sistema SkyNode consente di:

- rilevare la posizione istantanea del velivolo con possibilità di tracciamento e trasmissione bilaterale dati/messaggi (SkyNode S100);
- rilevare la posizione istantanea del velivolo con possibilità di tracciamento e comunicazione satellitare tra equipaggio/centro di controllo effettuabile direttamente in cuffia tramite ICS di bordo e pannello di comando e controllo installato sul cruscotto (SkyNode S200).

Il sistema GeoNode consente di:

- rilevare la posizione istantanea del mezzo navale o terrestre con possibilità di tracciamento e trasmissione bilaterale dati/messaggi.

Ambedue i sistemi si avvalgono del software LWS Sentinel che permette di controllare via web i dati della telemetria e di rappresentarli sui supporti informatici più opportuni a seconda delle esigenze.

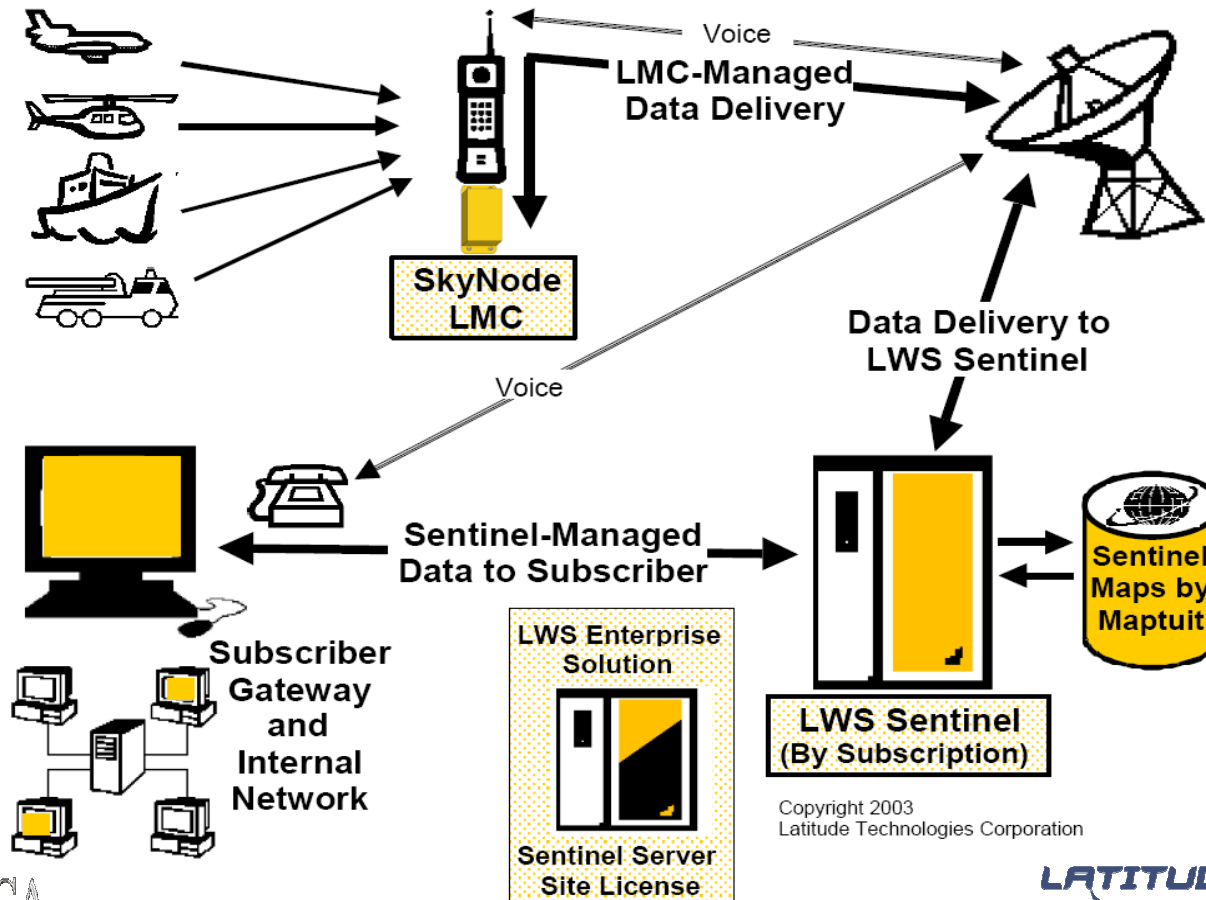
Qualora la riservatezza delle informazioni trattate sia un requisito, esiste la possibilità di inviare tutti i dati direttamente dal satellite al server predeterminato dall'utilizzatore, senza transito attraverso la rete.

Le apparecchiature, grazie alla certificazione EASA Parte 21 posseduta dalla Società, vengono fornite di bollettino di installazione EASA per il tipo di velivolo a cui sono destinate, hanno un costo iniziale e di esercizio assolutamente concorrenziale rispetto ad analoghi prodotti esistenti sul mercato ed offrono la possibilità di:

- effettuare un monitoraggio continuo della posizione dei propri velivoli, mezzi navali e/o terrestri con evidenti vantaggi ai fini del coordinamento e della sicurezza;
- consentire comunicazioni dirette con l'equipaggio in zone/aree geografiche dove non esista altra possibilità di collegamento.



Descrizione del sistema



SkyNode® S100

Flight Tracking and data messenger



Stay in contact with 2-way reliable data

Complete tracking and data telemetry in the industry's smallest and lightest package.

The S100 provides security and crew safety for air/ground logistics applications. 2-way data access is available everywhere you operate.

The S100 interfaces to multiple mapping and data management systems.



Exceeds Forestry AFF live tracking requirements

The S100 easily meets 2 minute live reporting interval requirements. Anything between 10 seconds to 18 hours can be managed on-the-fly.



More than great hardware...
Latitude builds solutions!

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SkyNode® S100

Technical Specifications



Features

- Automatic flight following
- Reliable 2-way data networking/messaging
- Remotely configurable
- Data logging and event triggers from external switches/buttons
- Internal fast-fix 12 channel GPS (WAAS/EGNOS) receiver, with auxiliary NMEA output

Electrical and Data Interfaces

- Power input voltage: 9-36 VDC (with reverse and over voltage and over current protection)
- Current: 0.16 A nominal, 0.50 A during transmit
- Serial data ports for Laptop/messaging terminal
- Auxiliary GPS serial data output.
- 2 serial data ports, 8 discrete I/O, 3 analog inputs

RF Interfaces

- Antenna options: Individual GPS and Iridium antennae, or dual element GPS/Iridium antenna.

Programming and Network

- Iridium Short Burst Data (SBD)
- Remote polling and configuration
- Custom event-based actions

Physical Specifications

- Size: 6.80" x 4.00" x 1.10" (17.3 x 10.2 x 2.8 cm)
- Weight: 0.94 lbs (426 g)

Environmental Qualifications

- Operating Temperature range: -30 to +60 C
- Humidity: >95%
- Altitude: 50,000 ft
- DO-160E Env. Cat. A4-BAB[(SM)(U2F)]XXXXXXZBBXXXBXXXXX

Approvals

Currently in fixed/rotor wing system certification process



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SkyNode® S200

SAT Phone, Flight Tracking and messaging transceiver



Reliable Voice & Data

The SkyNode® S200 is the world's lightest and most versatile integrated aeronautical communications device.

The S200 provides security and crew safety for air/ground logistics applications. Phone and data access is available everywhere you operate.

The S200 exceeds automated flight following (AFF) requirements presently mandated by US and Canadian Forestry Agencies and interfaces to multiple mapping and data management systems.



S200-021

2-wire POTS telephony and PBX interfaces



S200-011

Economical dialer integrates to audio panel

Network from Anywhere™

The S200 supports narrow band networking for aircraft requiring text messaging, email, FTP, and Internet access.

Evolve to your requirements

The SkyNode was designed with application versatility in mind. Order the features you require and add more in the future should the need arise. Change doesn't have to be expensive.



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SkyNode[®] s200

Technical Specifications



Features

- Complete tracking and voice satellite communications in a single enclosure
- Autonomous flight following operations
- Reliable 2-way data networking/messaging
- Remotely configurable
- Data logging and event triggers from external switches/buttons and system bus sources
- Internal GPS receiver module
- Multiple voice communication options.
- Versatile mounting configurations

Electrical and Data Interfaces

- Power input voltage: 12-34 VDC (with reverse, over voltage and over current protection)
- Current: 0.5 A nominal, 0.8 A during transmit
- Mic input (-01x models): 150 Ohm
- Audio: 100mW into 8 or 600 Ohm nominal
- Freq. resp: <3dB from 350 Hz to 3 kHz
- Serial data ports for Laptop/messaging terminal
- Auxiliary GPS data output
- I/O support for remote switches and indicators
- ARINC-429 receive bus interface (xx2 models)
- RS-485 serial data bus interface (xx2 models)
- 2-wire POTS phone interface (x2x models)

RF Interfaces

- Antenna options: Individual GPS and Iridium antennae, or dual element GPS/Iridium antenna

Programming and Network

- Iridium Direct Internet 2.x, Dial-up, FTP, UDP and TCP/IP socket session support
- Iridium SBD, SMS messaging and FAX
- Remote polling and configuration
- Custom event-based actions

Physical Specifications

- Size: 11.50" x 3.81" x 2.75" (29.2 x 9.7 x 7.2 cm)
- Weight: 3.08 lbs (1400 g)

Environmental Qualifications

- Operating Temperature range: -30 to +60 C
- Humidity: >95%
- Altitude: 50,000 ft

DO-160E Env. Cat. A4-BAB[[SM](U2F)]XXXXXXXXZBXXXBXXXX

Approvals

- STC SH06-4 (part 29 rotor)
- STC SH07-4 (part 27 rotor)
- P-LSA06-103/D (part 23 fixed-wing)



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GeoNode™

Tracking and Messaging Transceiver



Track mobile and fixed assets anywhere!



Get your fleet and field data when and where you need it!



Ruggedized construction for dependable operation!



Features:

- Complete tracking and telemetry data management system in an ultra-thin, ready-to-install package
- Provisioned with a full application suite, configurable to your specific requirements
- Supports event triggers, messaging, and data logging; from external switches, buttons, sensors, and user-display terminals
- Fast-fix 12 channel GPS (WAAS/EGNOS) receiver, with auxiliary NMEA output
- 2 serial data ports, vehicle ignition input, 7 discrete I/O, 3 analog inputs
- Remotely programmable
- Integrates to *Latitude LWS Sentinel* or other web-based data and mapping systems

Specifications:

- Power: 10 to 18 VDC, 0.5A max, 90mA nominal, 4 mA sleep
- Operating temperature range: -35°C to +70° C
- Size: 6.5" x 4.0" x 1.1" (165mm x 102mm x 28mm)
- Weight: 0.90 lb (408g)

For more information, please contact:



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