

SatLINK MAX

Iridium™ Satellite Communications Module



satLINK provides an Iridium™ satellite-based data communications alternative in the absence of HF, VHF or Inmarsat™ system coverage. Truly global, reliable, affordable, real-time data and voice communications are finally possible. From basic voice and position reports to complete FANS-1/A integration, satLINK is your solution.

Flexible Configuration

The requirements of commercial air transport differ from those of general aviation, but Avionica has Iridium™ solutions for everyone. From a basic voice communications handset to a fully avionics-integrated voice and data messaging system, we can fulfill your requirements. satLINK is available in single voice/single data and single voice/dual data variants.

Comprehensive Integration

No additional controls, handsets, or displays are required. satLINK integrates directly into the aircraft's existing Audio Control Panel. satLINK is a plug-in replacement for your ARINC 741/761 (e.g. Inmarsat) SDU, and provides dialing capability via the aircraft's existing ARINC 739 MCDU or ACARS IDU. The same interfaces can also be used for data messaging, routable over the aircraft's existing ARINC 724/758 MU/CMU. Status and annunciation are accomplished over the existing EICAS system; call lamp and chime are also available. MCDU emulation is available for Ethernet-connected EFB application where MCDUs are unavailable. Basic AOC messaging integration for non CMU-Equipped aircraft is also available with an MCDU using our built-in CMF (Communications Management Function). Don't have an MCDU or MIDU? No problem. Avionica is compatible with a number of low-cost market alternatives.



Features

- Low installed weight (22 Lbs)
- High performance, low-loss antenna installation
- DO-262 compliant GPS isolation filters
- SBD-MAX™ Iridium Network Datalink Optimization*
- ARINC 741/761 SATCOM compliant interface
- ARINC 739 MCDU / ARINC 724B IDU Interface
- ARINC 724 MU / ARINC 758 CMU Interface
- Dedicated voice/data and ACARS channel architecture
- Boeing AEIT tested and approved
- FANS-1/A compliant for FANS over Iridium
- ARINC and SITA network qualified
- Optional Communications Management Function

* patent pending

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avionica
REAL INNOVATION...REAL SOLUTIONS.

We're Ready to Help

Whatever you need, Avionica is ready to help. Our team will work with you to meet your data and communications management needs.
www.avionica.com

Integration Architecture

FANS-1/A compliant Iridium SATCOM Aircraft Integration



Part of the Wired Aircraft

satLINK is a component of Avionica's Wired Aircraft concept. It provides three 10/100 Mbit switched Ethernet ports for connections to EFBs, QARs as well as an 802.11 a/b/g/n access point. Through this cabin wireless access point, satLINK supports multiple 802.11, SIP-standards-based, VoIP cabin handsets with call-monitoring and intercom, as well as wireless access for satLINK dataloading and configuration maintenance tasks.

Certified, Turnkey Solution

Avionica understands that an innovative product is only part of the solution. Avionica already holds STCs for satLINK on the Boeing 727, 737, 747, 757, and 767. We are also proud to have been selected for the Boeing 787 test fleet. An Airbus A310 STC is available, as is an MD-10/MD-11 STC. Airbus A320, A330, and Embraer 170 and 190 series STCs are in process. Avionica provides turnkey FAA-PMA kits as part of our turnkey solution.

Call us today to discuss your requirements and join those who already profiting from the benefits of satLINK Iridium™ communications.

Size/Weight/Conformities

Dimensions 9.82 (L) x 4.24 (W) x 2.58 (H) inches
Weight 22 lbs

Interfaces

- 3 integral switched 10/100 Mbit Ethernet ports
- 802.11 Cabin Wireless LAN Unit (CWLU)
- SIP VoIP call management support over 802.11 CWLU
- 6 ARINC 429 receivers
- 4 ARINC 429 transmitters
- 10 ARINC 410 discrete inputs
- 10 ARINC 410 discrete outputs
- 3 RS 232 receivers
- 3 RS 232 transmitters
- 2 RTCA DO-214 audio input (with microphone bias)
- 2 RTCA DO-214 audio output
- STCs for 727, 737, 747, 757, 767, MD10/11, A310
- STCs in progress: Embraer 170 and 190 series, A320

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