



# satLINK MAX

## ADVANCE IRIDIUM™ SATELLITE COMMUNICATIONS SYSTEM

satLINK MAX provides up to four channels of Iridium™ satellite-based voice and data communications, a complete FANS-1/A+ (CPDLC at RCP240 & ADS-C at RSP180) compliant package. ATS voice (Compliant with FAA AC 20-150B), ATS datalink (Compliant with FAA

AC 20-140C) and AOC cabin voice for a truly global, reliable, affordable, datalink and voice communications. ARINC AQP and SITA VAQ network qualified, satLINK MAX is your SATCOM solution for all your operational communications.

### HIGH PERFORMANCE

Avionica has installed hundreds of satLINK systems that are in service worldwide. With our experience in designing, manufacturing, certifying, and installing airborne Iridium communications, Avionica has developed technologies that yield the best performance from the Iridium network, and exceeds the requirements of RTCA DO-262 Minimum Operational Performance Standards (MOPS).

### LOW WEIGHT, EASY INSTALL

satLINK MAX delivers high performance, with minimal installation impact to aircraft operations by; Cockpit Voice Integration with existing controls (Audio Control Panels or Audio Selector Panel) and displays (739 MCDU or IDU) to name a few. When paired with the Avionica avRDC MAX, the two LRU architecture yields the lowest weight installation in the industry while simultaneously offering additional value-added functionality including QAR FOQA capture. Together, the satLINK MAX, avRDC MAX and complete installation hardware weighs below 89lbs / 40 Kg. Avionica offers installation kits and Engineering Services to further simplify the satLINK MAX aircraft integration.

## PART OF THE CONNECTED AIRCRAFT

satLINK MAX is a core component of Avionica's Connected Aircraft concept. Bring your own Wi-Fi 802.11 devices (smartphones or tablets) and enjoy satcom calls, wirelessly when including an Avionica avWiFi. Switched Ethernet ports provide connectivity between peripheral devices and access to the Iridium network. Additionally provide various functions such as QAR and EFB (AID) support when installed with the Avionica avRDC MAX and wirelessly transfer Flight Data via cellular or WiFi.

## INDUSTRY QUALIFIED

- Compliant with FAA AC 20-140C for ATS data-link.
- Compliant with FAA AC 20-150B for SATVOICE.
- Compliant with RTCA DO-262 for Iridium satellite operational performance standards.
- Demonstrated to meet ICAO PBCS RCP240 and RSP180 specifications in compliant installations.
- ARINC AQP and SITA VAQ network qualified.
- STCs: B737, B757, B747, B767, B777, A320, A330

## FEATURES

- Lightest Iridium system available (2lbs 13oz)
- High performance, low-loss antenna installation
- Up to four Iridium voice/data channels available
- Integrated DO-262 compliant GPS isolation filters
- FANS-1/A compliant for FANS over Iridium
- Safety Services compliant for ATS voice over Iridium
- ARINC 741/761 SATCOM compliant interface
- ARINC 739 MCDU / ARINC 724B IDU Interface
- ARINC 724 MU / ARINC 758 CMU Interface
- ARINC and SITA network qualified
- Four built-in Iridium SIM card holders with tool-free access (with avPM).





## TECHNICAL SPECIFICATIONS

### SIZE/WEIGHT/CONFORMITIES

Dimensions 9.82 (L) x 4.24 (W) x 2.58 (H) inches  
Weight 2 lbs. 13oz

### INTERFACES

- 3 Switched 10/100 Mbit Ethernet ports
- 9 ARINC 429 receivers and 7 ARINC 429 transmitters. **Use cases:**
  - ARINC 741/761 SDU functionality is supported for flight deck voice and datalink integration
  - Up to three ARINC 739A MCDUs are supported, using one ARINC 429 transmitter and three receivers
  - One ARINC 724/758 CMU/MU is supported, using one ARINC 429 transmitter and one receiver
- 9 programmable (input/output) ARINC 410 discretes
  - SAT CALL annunciators for each flight deck voice channel through standard discretes
  - SAT CHIME for all flight deck voice channels
  - SAT CHIME INHIBIT for chime muting during critical phases of flight
  - SAT MIC SELECT for call initiation, answering, and hang-up
- 4 RTCA DO-214 audio input (with microphone bias)
- 4 RTCA DO-214 audio output
- Optional 802.11 Cabin Wireless LAN Unit (CWLNU)
- Optional 802.11 Terminal Wireless LAN Unit (TWLU)
- Optional 802.11 wireless SIP VoIP call management support
- Optional QAR functionality
- Optional 4G Wireless Terminal LAN Unit (TWLU)

### ENVIRONMENTAL

DO-160 Categories

A2, B, A, B, S, X, X, X, X, X, X, A, A, A, Z, CC, TR, M, X, X, X, A, X