

## **AeroPhone+®** The new Iridium Satcom Family

As new technologies and customer needs arrive on an increasingly globalized market, AeroPhone has been developed further.



### **AeroPhone+® provides:**

- Enhanced Voice and Data Communication
- Increased Safety
- Optimized Fleet Logistics
- Operational Benefits and Cost Reduction

by

- World-wide Voice and Data Communication covering remote areas, e.g. polar and oceanic region
- Short Burst Data Service
- Direct web link from A/C to operator's host
- Dual Interfaces to FMS, CMU and MCDU for Logistics and ACARS Services
- Tracking Option and integrated GPS
- Bluetooth and WLAN Interfaces



## Satellite Transceiver Unit (STUI)



Single Channel



Dual Channel

Compatible with previous AeroPhone models

- Single and dual channel versions
- up to 100 phone book entries
- aural and visual incoming call indication
- Interfaces
  - two channel InterCom audio in/out
  - Standard ARINC (FMS, CMU, MCDU)
  - RS-232 (data services, PC-Interface)
- SBD, SMS, email, modem mode
- Options:
  - Bluetooth, WLAN (Data, Handset)
  - Internal GPS Receiver
  - Position Reports for Fleet Management
  - ACARS data formatting for Aeronautical Administrative Communication (AAC)

## Cockpit Dial Panel (CDP)

- 2 x 16 character LC-Display
- access to phone book and messages
- set-up and control
- green backlight and status indication
- DZUS mounted



## IRIDIUM Antenna

- low profile antenna
- enhanced protection against rain, ice and lightning strikes
- easy installation



## Technical Data

### Certification:

- Airworthiness Approval: ETSO-2C514
- Environmental Qualification:  
RTCA /DO-160F / EUROCAE ED 14F
- Software Standards:  
RTCA /DO-178B / EUROCAE ED12B
- Hardware Standards:  
RTCA/DO-254 / EUROCAE ED80
- Audio Systems Characteristics Minimum  
Operational Performance Standards: RTCA/DO-214

### Data Transmission Rate:

- Point-to-point: up to 2400 baud
- Web access: up to 9600 baud

### Frequency Range:

- 1616 – 1626.5 MHz, L-Band

### Electrical Specification:

- Voltage: 18 – 32V
- Power Consumption:
  - < 1 A at 28V (single channel)
  - < 2 A at 28V (dual channel)

### Environmental Specification for STUI and CDP:

- Temperature Range
  - Storage: – 40° C ... + 85° C
  - Operation: – 20° C ... + 60° C
- Humidity: 95%, non-condensing

### Environmental Specification Antenna:

- Operational / Storage Temperature:  
– 55° C ... + 85° C

### Mechanical Specification STUI:

- Housing (LxWxH):  
237 x 130 x 66 mm (single channel)  
237 x 130 x 106 mm (dual channel)
- Weight:  
1,6 kg (single channel)  
2,3 kg (dual channel)

### Mechanical Specification CDP:

- Housing (L x W x H): 76 x 146 x 50 mm (8 DZUS)
- Weight: 0,4 kg

### Mechanical Specification Antenna:

- Dim. (Height x Diameter): 17 x 90 mm
- Weight: 0,2 kg

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Aerodata AG is a value added  
manufacturer of the Iridium Satellite LLC