

AERONAUTICAL SATCOM - TRANSCEIVER

SPECIFICATIONS



eNfusion[®] HSD-400
high-speed data terminal

Function

eNfusion™ high-speed satellite communications transceivers interface with any ARINC 741/781 compatible antenna to provide high-speed voice and data links to Inmarsat's world-wide satellite network.

The HSD-400's two (2) channel card subsystems are used for data and voice communication. Each card can support two (2) simultaneous Inmarsat Swift 64 channels, or a single (1) SwiftBroadband (BGAN) channel.

The HSD-400 accesses SwiftBroadband services over Inmarsat's I-4 satellite network. The unit can fallback on Swift 64 services over the I-3 satellites network, for ultimate reliability.

Form Factor

The HSD-400 conforms to ARINC 600 specifications and includes front panel maintenance access port and USIM module access.

Communication

SwiftBroadband	Standard IP (up to 432kbps, nominally 300-150kbps) Streaming IP (QoS service) 128kbps 64kbps 32kbps Voice (4.0kbps AMBE™+2 codec) ISDN (64kbps Data or 3.1kHz Audio) Circuit switched ISDN (Voice or Data) MPDS via PPPoE Voice (4.8kbps AMBE™ codec)
Swift 64	Two (2) 10-Base-T Ethernet One (1) ISDN BRI
Data Interfaces	Two (2) two-wire POTS Two (2) four-wire voice (Aero H+)
Voice Interfaces	ARINC 429 high-speed serial bus Interface to ARINC 741/781
Control Interfaces	

Certification, Approvals, Standards

ARINC Standards	ARINC 429, ARINC 739, ARINC 600, ARINC 741/781
Military Standards	MIL-STD-704E(power/irreg. power) MIL-STD-810F(shock, acceleration)

Operation

Receive Band	1525.0 - 1559.0 MHz
Transmit Band	1626.5 - 1660.0 MHz
Power Requirement	Dual mode power, 460W maximum
AC Mode	115 VAC 300-800 Hz 1-Phase pwr.
DC Mode	28V DC
High Power Amplifier Monitoring	Integrated, 60W Continuous HPA/Input status Detailed status/fault reporting

Environmental Conditions

Operating Temperatures	Section 4, Cat F2, -55°C to +70°C
Maximum Altitude	55,000 ft
Humidity	Section 6, Cat B
Crash Safety	Section 7, Cat B
Vibration	Section 8, Cat S, U (Helicopter)
Explosion Proofness	Section 9, Cat E
RF Emissions	Section 21, Cat B
Cooling	Forced air cooled

Dimensions

ARINC 600 Standard	8-MCU	
Length	14.58 in	36.45 cm
Height	7.9 in	20.10 cm
Width	10.20 in	25.91 cm
Weight	34.70 lbs	15.74 kg



A quick-access port at the front of the unit for maintenance and control interfaces



Rear interface port connector inserts



A removable SIM module allows quick activation and replacement

ORDER

Call or email for prices and details regarding system capabilities and installations.

North America **+1.800.600.9759**
Worldwide **+1.613.591.1043**
getbroadband@emssatcom.com
or **www.emssatcom.com**

Part Numbers

HSD-400 with dual power supply	1252-A-3500
HSD-400 28 volt	1252-A-3200
HSD-400 115 volt SBB	1252-A-3100

LEARN MORE

Additional Documents

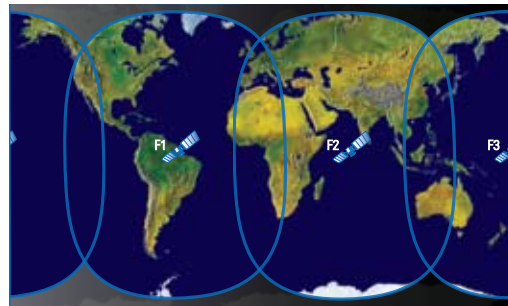
Additional documents related to installation, maintenance, satellite network hardware and software—can be requested online or via the phone numbers listed above.

Related eNfusion Specification Sheets

- AMT-50 High-gain Antenna (tail mounted)
- AMT-3800 High-gain Antenna (fuselage mounted)
- CNX-100 Airborne Router
- CNX-200 Network Accelerator
- CNX-300 Mobile Access Router (with CISCO® MAR)
- CCU-200 Communications Convergence Unit (Wi-Fi, PBX)

Coverage and Service information

Contact us for the most up-to-date coverage, service provider and airtime information. Inmarsat's current I-4 network shown below.



ISO AS-9100

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