

# AERONAUTICAL SATCOM - TERMINAL SPECIFICATIONS



## eNfusion® HSD-Xi HSD channel extension

An eNfusion® HSD-Xi extension terminal expands the capacity of an eNfusion Broadband system. The combination of an HSD-440 and an HSD-Xi provides a Multi-Channel (either two SwiftBroadband channels or three Swift 64 channels) high-speed data communication link with the Inmarsat I-4 satellite network.

### Form Factor

The HSD-Xi is a 2-MCU sized terminal with mounting requirements that meet ARINC 600 specifications. The HSD-Xi contains its own External Subscriber Configuration Card (required for SwiftBroadband services) and maintenance ports (for software updates and direct monitoring).

The supplemental channel provided by an HSD-Xi enables additional voice or data connections using SwiftBroadband or Swift 64 services. The channel can be configured for Packet-Switched Services or Circuit Switched Services.

### Communication Services

SwiftBroadband	Standard IP (up to 432kbps, nominally 300-150kbps) Streaming IP - 128kbps - 64kbps - 32kbps Voice (4.0kbps AMBE™+2 codec) ISDN (64kbps Data or 3.1kHz Audio)
Swift 64	Circuit switched ISDN (Voice or Data) MPDS via PPPoE or Serial Voice (4.8kbps AMBE™ codec) 64K Speech, 3.1 KHz Audio
Data Interfaces	One (1) 10-Base-T Ethernet One (1) ISDN BRI Maintenance Port (RS-232 serial) Crosstalk bus (ARINC 429 high-speed) One (1) RS-232 Serial MPDS

### Operation

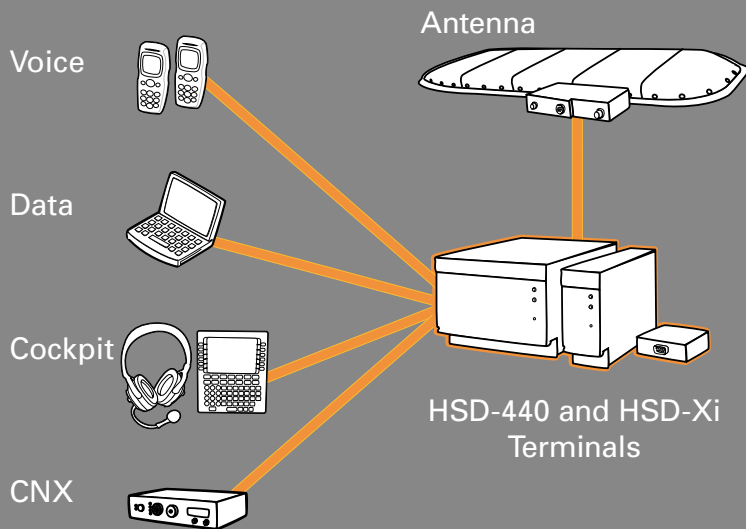
Receive Band	1525.0 - 1559.0 MHz
Transmit Band	1626.5 - 1660.0 MHz
Power Requirement	AC mode power, 35W maximum
AC Mode	115 VAC 400 Hz 75 va
Power Dissipation	34W
Input impedance	50 ohms
Output impedance	50 ohms
Input level operational	-107 dBm to -47 dBm
Input level no damage	+10 dBm
Monitoring	Continuous Input/Output status Detailed status/fault reporting

### Dimensions

ARINC 600 Standard	2-MCU	
Weight	8.8 lbs. max	4.0kg max

### Environmental Conditions

Operating Temperatures	-40°C to +55°C without cooling air (A4) -40°C to +70°C with cooling air (C4)
Environmental Category	RTCA/DO-160D [(A4)(C4)Y]BAB[SB]EXXXFXZA(WF)-AA(WF)C[RR]M[A3J33]XXA



Three rear interface ports (ISDN, Ethernet, maintenance). One front interface (maintenance).



Fits 2MCU Arinc 600 mounting tray.

# ORDER

Call or e-mail for prices and details regarding system capabilities and installations.

**+1 800.600.9759 (North America)**

**+1 613.591.1043 (Worldwide)**

or [getbroadband@emsaviation.com](mailto:getbroadband@emsaviation.com)

## Part Numbers

HSD-Xi 115 VAC

1252-A-4100-01

ESCM module

1252-A-4120-01

Mounting Tray (ECS)

200-910002-101

# LEARN MORE

## Additional Documents

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

## Related eNfusion Specification Sheets

HSD-440 High-Speed Terminal

## 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.



# EMS

## AVIATION

EMS is now part of Honeywell

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