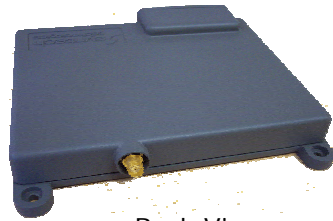


# APOLLO INMARSAT D+ Transceiver Specifications



Antenna



Back View



Front View

## Frequency Range

Transmit	1626.5 MHz to 1660.5 MHz
Receive	1525.0 MHz to 1559.0 MHz
GPS Receive	1575.42 ± 1.0 MHz

Antenna G/T	≥ -25dB/K at EL = 30°
EIRP	< 9dBW
	-3dBW @ EL = 5°

## Message Characteristics

To Modem	up to 1000 bits
From Modem	up to 84 bits

## GPS Module Specification (Fully compatible with Satamatics' Antenna)

Number of Channels	12
Time to First Fix (Typical)	
Cold start	45s
Hot start	<8s (GPS was off for less than 2 hours)
Accuracy	
Position (CEP, 2D)	4m (Typical)
Altitude	18 km as maximum
Dynamic capability	
Velocity	Maximum 515m/s
Acceleration	≤4g

## Storage Memory

Queued Messages	Up to 8 messages
Offline Messages Storage	Up to 2000 messages

## Group Identification (GID) Support

Number of definable groups	Up to 5 groups
----------------------------	----------------

## Automatic Power-Up Message

On Power up	Yes
-------------	-----

## Scripting

Java Enabled Scripting Language	
---------------------------------	--

## Serial Communication

Interface	Asynchronous serial RS232 or RS485
Baud rate	9600 bps
Parity/data bits/stop bits	N, 8, 1

## Electrical Characteristics

Power Supply Voltage	9.6V to 30V DC
----------------------	----------------

# APOLLO INMARSAT D+ Transceiver Specifications

## Physical

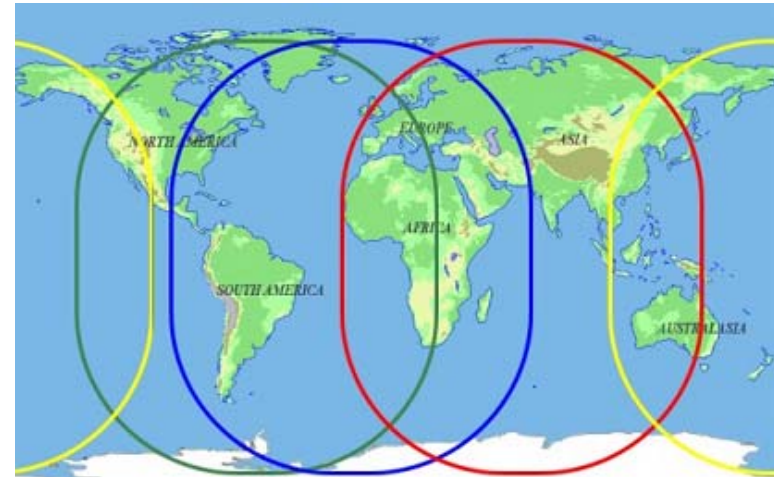
Weight		
Main module		Less than 500g
Antenna (incl. 5m cable)		Less than 420g
Modem Color		Grey
Antenna Color		White

## Connectors

Antenna	SMA
Cable Entry	Bottom Screw (Fully compatible with Satamatics' antenna)
Data/Control/Power	25 way D type

## Environmental

Temperature		
Main module		-25C to +70C
Antenna		-40C to +70C
Humidity		≤ 95% @ +40C



INMARSAT Satellites Network Coverage

*Contact us:*

**SAT Track Engine**

**Email: [info@sattrackengine.com](mailto:info@sattrackengine.com)  
WEB: [www.sattrackengine.com](http://www.sattrackengine.com)**

*Our agent in your country:*