



## Flightcell Iridium Modem Specification

<b>Part number</b>	MOP_00010	
<b>Material</b>	Faceplate and backplate – diecast Type 380 Aluminium with Alodine Chromate finish Extrusion – 6063 Aluminium with clear anodized finish	
<b>Input voltage</b>	12-32 V DC	
<b>Power supply current</b>	Maximum current – 500mA @ 28V	
<b>RF Frequency Range</b>	1616 MHz to 1625.5MHz	
<b>Average RF TX Power</b>	During a TX slot (max)	7W
	During a frame (typ.)	0.6W
<b>RF RX Sensitivity</b>	-118 dBm	
<b>Max Cable Loss<sup>1</sup></b>	3 dB	
<b>Max Antenna gain</b>	3dBi	
<b>Antenna Impedance</b>	50 Ω	
<b>MIC audio</b>	Input	Fully Differential – typical electret mic levels
	Input impedance	600Ω
<b>SPK audio</b>	Output	Fully differential - Typical 70mW into 32 Ω
	Output impedance	600Ω
<b>Data connection</b>	RS-232 - RTS/CTS Flow control only.	
<b>Weight</b>	225grams	7.9 oz
<b>Dimensions</b>	Width	62mm 2.44"
	Height	33.9mm 1.35"
	Depth	144mm 5.67"
<b>Main connector</b>	DA-15F	
<b>Antenna connector</b>	TNC	
<b>Operating Temperature Range</b>	-30°C to +70°C	
<b>Storage Temperature Range</b>	-40°C to +85°C	
<b>Certification</b>	DO160G Sections: 20 RF Susceptibility), 21 (EMI)	

1. The total implementation loss for antenna, connectors, cable and any other RF component between the modem and the antenna should not exceed 3dB.