



Flightcell 9523 Modem Specification

Part number	MOP_00010	
Material	Faceplate and backplate – diecast Type 380 Aluminium with Alodine Chromate finish Extrusion – 6063 Aluminium with clear anodized finish	
Input voltage	12-32 V DC	
Power supply current	Maximum current – 500mA @ 28V	
RF Frequency Range	1616 MHz to 1625.5MHz	
Average RF TX Power	During a TX slot (max)	7W
	During a frame (typ.)	0.6W
RF RX Sensitivity	-118 dBm	
Max Cable Loss¹	3 dB	
Max Antenna gain	3dBi	
Antenna Impedance	50 Ω	
MIC audio	Input	Fully Differential – typical electret mic levels
	Input impedance	600Ω
SPK audio	Output	Fully differential - Typical 70mW into 32 Ω
	Output impedance	600Ω
Data connection	Switchable RS-485/RS-232. For RS-232 RTS/CTS Flow control only. USB 2.0	
Weight		225grams 7.9 oz
Dimensions	Width	62mm 2.44"
	Height	33.9mm 1.35"
	Depth	144mm 5.67"
Main connector	DA-15F	
Antenna connector	TNC	
Operating Temperature Range	-30°C to +70°C	
Storage Temperature Range	-40°C to +85°C	
Certification (Pending)	DO160G Sections: 4 (Temp), 6 (Humidity), 7 (Shock/Crash Safety), 8 (Vibration) 15 (Mag), 20 RF Susceptibility), 21 (EMI), 25 (ESD)	

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

TEC_MO4_001

Revision 1.0 (FCN0488)

7th June 2013