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 Loss[1]		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

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