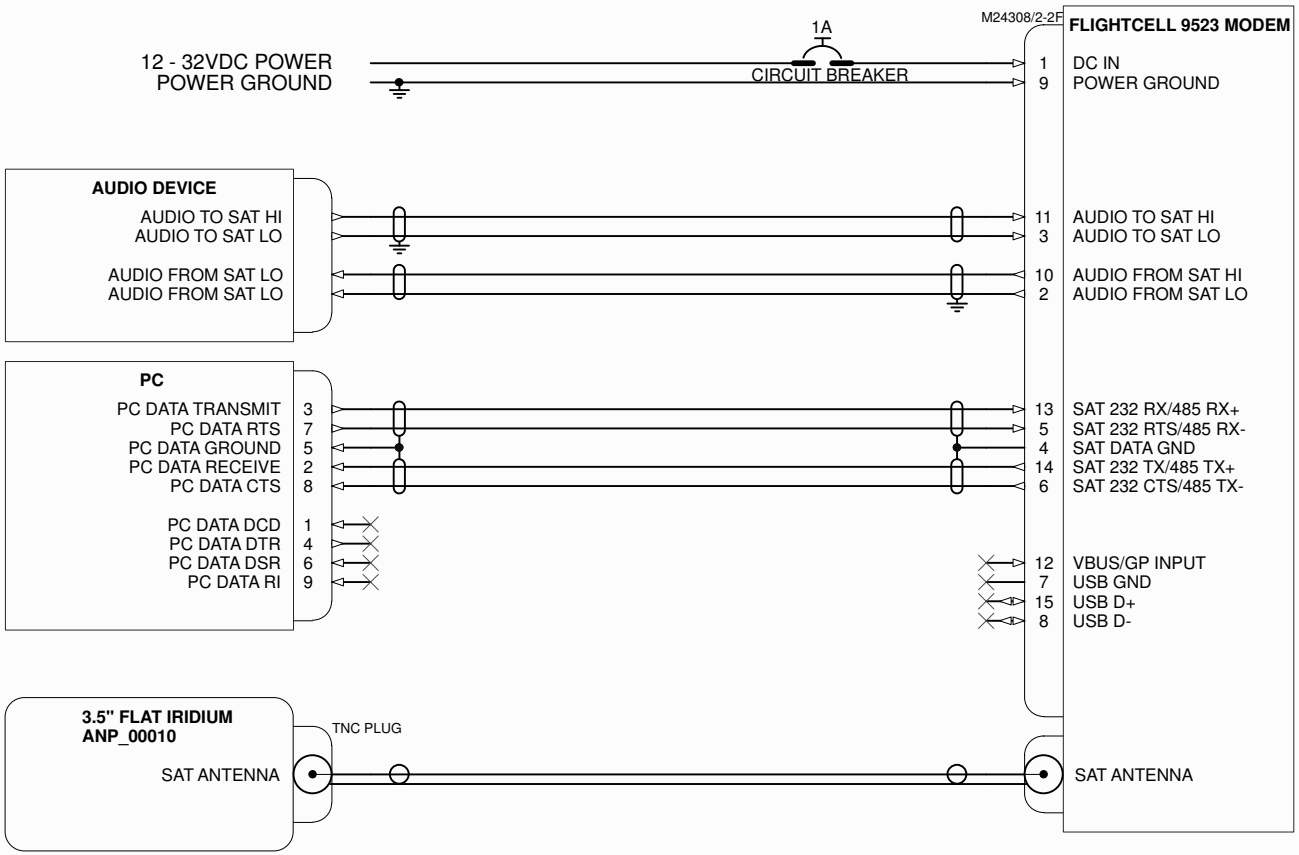
Flightcell Iridium Modem: Standalone Interconnect Wiring Diagram



NOTES:
The Iridium antenna should be placed horizontally on an exterior surface such that it has an unobstructed view of the sky.

Selection of coax cable depends on the lengths of the cable runs.

Iridium specify that the maximum signal loss in the cable should be 3dB at 1645MHz, so maximum cable lengths are as follows:

RG174 - 2m
RG58C/U - 3m
LMR200 - 6.5m
RG58-9006 cellfoil - 6.5m
RG213 - 8m
LMR400 - 17m
LMR600 - 26m

Where practicable the antenna should be placed well clear (at least 500mm and preferably 1000mm) from any other antenna operating at similar frequencies.

The MIC interface does not provide a mic bias voltage. If an electret mic is to be directly connected to the input it must have an externally provided bias voltage.

NOTES:
1. ALL POWER CABLES SHOULD BE 22AWG STRANDED UNLESS OTHERWISE NOTED e.g. M22759/34-22-9
   OTHER CABLES SHOULD BE 22AWG STRANDED, SCREENED WHERE INDICATED e.g. M27500/-24SB2T14.
2. IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN
3. SYMBOL DESIGNATIONS

SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND

SHIELDED PAIR
SHIELD FLOATING

UNIT GROUND

WIRE SPLICE CONNECTION

REV	DESCRIPTION	DATE	APPD
1.0	Document created (FCN0707)	01/11/16	JG

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Product:	Flightcell Iridium Modem
Sheet:	Standalone ICD 1 of 1
Issue:	1.0
Drawn By:	James Glasgow
Filename:	Iridium Modem Standalone Interconnections.SchDoc
Date:	1/11/2016
Drawing No:	WRL_MO4_002