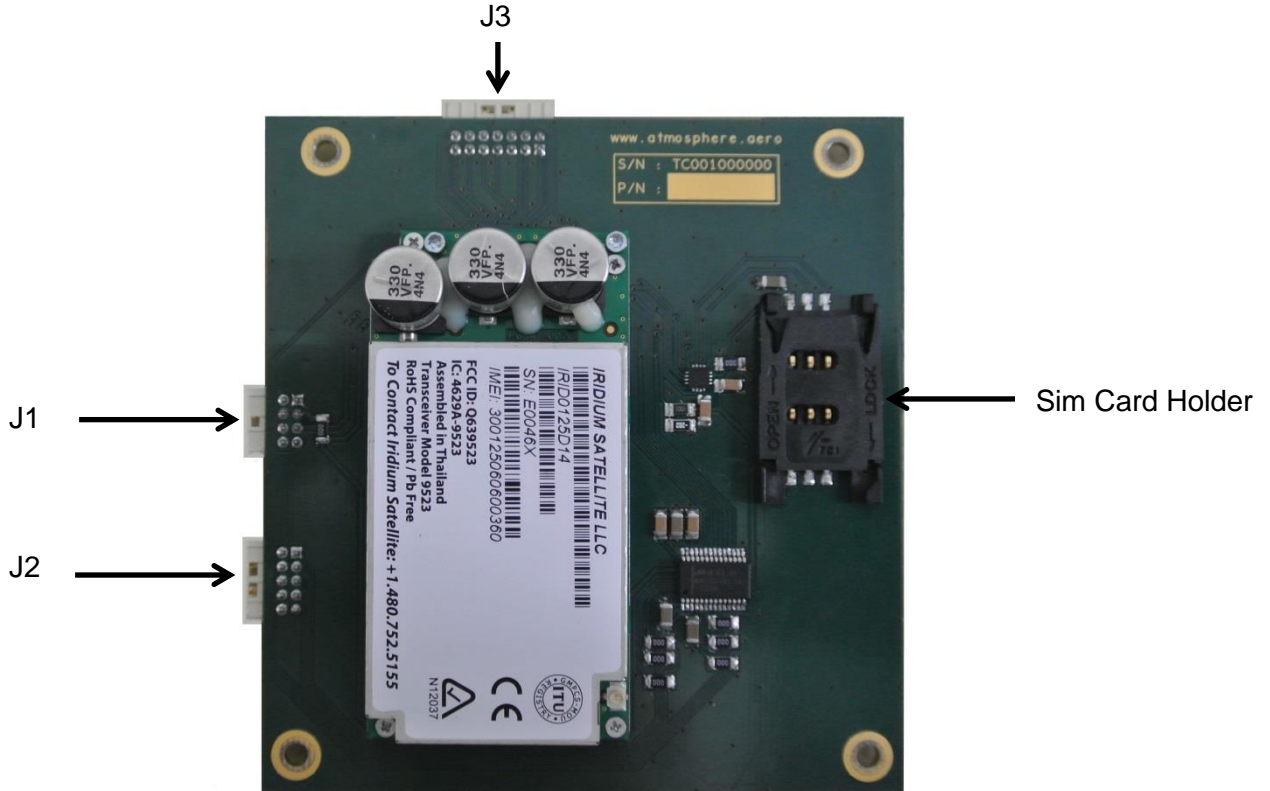


Iridium 9523 PC104 Integration Board – Technical Specifications



Functional Description

The Iridium 9523 Integration Board is a PC104 format card that enables to integrate Iridium Modem 9523. It includes a sim card holder and splits all 9523 modem signal on standard PCB connectors.

Application

The Iridium integration board is designed for use of Iridium data connectivity in embedded applications. Additional software package enables IP connectivity with QoS management on Iridium 9523.

Mechanical Characteristics

PC104 Format (90.2 x 95.9mm), 80g

J1 – Power Connector

Connector: FCI Minitek 98464-G61-08ULF, 8-way, 2mm (.0787”), shrouded header.

Mating Socket: FCI Minitek 90311-08LF.

Pin No.	Signal Name	Signal Direction	Signal Function	Signal Group
1	0V		Ground	Power supply
2	NC			
3	VBAT	In	Battery voltage	Power supply
4	NC			
5	VBOOST	In	Battery voltage for PA	Power supply
6	NC			
7	TRX_ON	In	Enable modem power regulators	Power supply
8	NC			

J2 – Serial Connector

Connector: FCI Minitek 98464-G61-10ULF, 10-way, 2mm (.0787”), shrouded header.

Mating Socket: FCI Minitek 90311-010LF.

Pin No.	Signal Name	Signal Direction	Signal Function	Signal Group
1	DF_DSR	Out	Data set ready	Data/Fax port
2	DF_DCD	Out	Carrier detect	Data/Fax port
3	DF_RTS	In	Request to send	Data/Fax port
4	DF_RX	Out	Data from modem	Data/Fax port
5	DF_CTS	Out	Clear to send	Data/Fax port
6	DF_TX	In	Data to modem	Data/Fax port
7	DF_RI	Out	Ringling indication	Data/Fax port
8	DF_DTR	In	Data terminal ready	Data/Fax port
9	NC			
10	DF_GND		Ground	Power supply

J3 – Other Signals Connector

Connector: FCI Minitek 98464-G61-14ULF, 14-way, 2mm (.0787”), shrouded header.

Mating Socket: FCI Minitek 90311-014LF.

Pin No.	Signal Name	Signal Direction	Signal Function	Signal Group
1	UC_DACLK	Out	Clock	PCM audio port 2
2	UC_DAFS	Out	Frame Sync	PCM audio port 2
3	UC_DATX	Out	Data from modem	PCM audio port 2
4	DPL_RXD	In	Data to modem	DPL port
5	UC_DARX	In	Data to modem	PCM audio port 2
6	ANT_DET_PWR	Out	Power for docking cradle detector	GPIO
7	CODEC_PCMSYNC	Out	Frame Sync	PCM audio port 1

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8	TX_ACTIVE	Out	Signal to mute GPS receiver	GPIO
9	CODEC_PCMCLK	Out	Clock	PCM audio port 1
10	PA_BOOST_EN	Out	Enable boost converter	Power supply
11	CODEC_PCMIN	Out	Data from Modem	PCM audio port 1
12	FULL_POWER_EN	In	Enable full RF power	GPIO
13	CODEC_PCMOUT	In	Data to modem	PCM audio port 1
14	DPL_TXD	Out	Data from modem	DPL port