

Iridium Satellite Transceiver Model 9602-NAL

General Description

The 9602-NAL is a satellite transceiver designed to operate with the Iridium network in SBD-only mode. The 9602-NAL communicates with a host system through an RS232 interface. It can accept input voltage ranging from 5VDC to 32VDC.

NAL Research can enable the 9602-NAL to utilize either the Iridium commercial gateway at Tempe, Arizona or the U.S. DoD EMSS Gateway when requested by an authorized user.



Specifications

Mechanical

Dimensions:	2.81" L x 1.90" W x 0.91" D
	(71 mm x 48 mm x 23 mm)
Weight:	4.8 oz (136 g)
I/O Interface:	15-Pin D-Sub
Antenna:	SMA
Cooling:	Convection
Enclosure:	Aluminum/EMI shielding

Electrical

Input Voltage Range: 5VDC to 32VDC Input Nominal Voltage: 5.0VDC Input Ripple Voltage: 40mV pp Avg. Standby Current: 45mA @ 5.0VDC Avg. Transmit Current: 190mA @ 5.0VDC Peak Current: 1.5A @ 5.0VDC

RF

Operating Frequency: **Duplexing Method:** Link Margin Downlink: 13 dB average Link Margin Uplink:

1616 to 1626.5 MHz Time Division Duplex 7 dB average

Data I/O

SBD Mobile Originated: 340 Bytes/message SBD Mobile Terminated: 270 Bytes/message Hardware Interface: 3.3V Digital Software Interface: AT Commands

Environmental

Operating Temperature:	-40°F to +185°F
	(-40°C to +85°C)
Operating Humidity:	< 75% RH
Storage Temperature:	-40°F to +185°F
	(-40°C to +85°C)
Storage Humidity:	< 93% RH