

NAL 9602-N IRIDIUM® MODEM

DEVICE FEATURES

- ✓ Operation does not require a SIM card
- ✓ Automatic notification indicating a message is queued at the Gateway
- ✓ Offers a maximum Mobile Originated (MO) message size of 340 bytes
- ✓ Offers a maximum Mobile Terminated (MT) message size of 270 bytes
- ✓ Supports RS232 serial connection
- ✓ Capable of accepting voltage ranging from 5VDC to 32VDC
- ✓ Compatible Airtime Service: SBD



NAL 9602-N IRIDIUM® MODEM (SBD-Only with Serial Interface)

The 9602-N Modem is designed to operate with the Iridium satellite network in SBD-only mode. It 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-N Modem to utilize either the Iridium Commercial Gateway at Tempe, Arizona or the US 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 ounces (136 grams)
I/O Interface:	15-Pin D-Sub
Antenna:	SMA female connector
Cooling:	Convection
Enclosure:	Hard-Anodized Aluminum (EMI Shielded)

Electrical

Input Voltage Range:	5.0VDC or 6.0VDC to 32VDC
Input Nominal Voltage:	5.0VDC
Input Ripple Voltage:	40mV pp
Idle Power:	45mA @ 5.0VDC
Transmit Power:	200mA @ 5.0VDC

RF Board

Iridium Transceiver:	Iridium 9602
Operating Frequency:	1616 MHz to 1626.5 MHz
Duplexing Method:	TDD
Link Margin Downlink:	13 dB average
Link Margin Uplink:	7 dB average

Data I/O

SBD Mobile Originated:	340 bytes/message
SBD Mobile Terminated:	270 bytes/message
Hardware Interface:	3.3V Digital

Environmental

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

