



**CAMPBELL SCIENTIFIC**  
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## IRIDIUM™ SATELLITE MODEM : MODEL A3LA -D



Similar to a standard land-line modem—serial interface and AT commands

Supports dial-up, RUDICS, SBD, SMS, direct Internet and voice

Real-time, continuous circuit-switch communications

Two-way communications in all data modes

Pole-to-pole global coverage

Certified to MIL-STD-810F

Easy to install

### IRIDIUM™ SATELLITE MODEM: MODEL A3LA -D

The A3LA-D is a satellite modem designed to operate with the Iridium network. Similar to a standard land-line modem, the A3LA-D can be controlled by any DTE (data terminal equipment) capable of sending AT commands via a serial port. A DTE can be a desktop computer, a laptop computer, a PDA, or even a micro-controller. It has been certified to MIL-STD-810F standards for temperature, humidity, altitude, rain, shock, sand, dust and salt fog.

#### Model A3LA -D Specifications

##### Mechanical

Dimensions:	7.73" L x 3.25" W x 1.54" D (19.6 cm x 8.3 cm x 4.0 cm)
Weight	~1.44 pounds (659 g)
I/O Interface:	25-Pin D-Sub, SIM Reader
Antenna:	TNC Female
Cooling:	Convection
Enclosure:	Aluminum/EMI shielding

##### Electrical

Input Voltage Range:	4.0VDC to 4.8VDC
Input Nominal Voltage:	4.4VDC
Input Ripple Voltage:	40mV peak-to-peak
Avg. Standby Current:	130mA @4.4VDC
Avg. Transmit Current:	1.0A @ 4.4VDC
Avg. Data Call Current:	500mA @ 4.4VDC
Peak Power-up Current:	~2.2A @ 4.4VDC

A3LA -D SATELLITE MODEM  
POWER ED by the IRIDIUM NETWORK



# IRIDIUM™ SATELLITE MODEM : MODEL A3LA -D



Operates similar to a standard modem  
Supports all Iridium data modes and voice

Certified to MIL-STD-810F standards  
Two-way, real-time communications  
Truly global coverage

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## Model A3LA -D Specifications

### Iridium RF Board

Operating Frequency: 1616 to 1626.5 MHz  
Duplexing Method: Time Division Duplex  
Multiplexing Method: TDMA/FDMA  
Link Margin: 13.1 dBW

### Data I/O

Dial-up Data, RUDICS: 2.4 Kbits/sec  
Direct Internet: 2.4 Kbits/sec (~10.0 Kbits/sec with Apollo Emulator under the DoD gateway)  
Short-Burst Data: 1960 Bytes/Message outbound, 1850 Bytes/Message inbound  
Short Messaging: 160 characters  
Hardware Interface: RS-232  
Software Interface: AT Commands

### Environmental

Operating Temperature: -4°F to +140°F (-20°C to +60°C)  
Operating Humidity: < 75% RH  
Storage Temperature: -40°F to +185°F (-40°C to +85°C)  
Storage Humidity: < 93% RH  
Certified to MIL-STD-810F standards for temperature, humidity, altitude, rain, shock, sand, dust, salt and fog



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