



MAX9603-PCB

Iridium 9603 based SBD controller with GPS -
PCB/board level version

Part #: 108-00086-02

Description

The MAX9603-PCB is a GPS enabled device that allows reliable pole to pole communication using an Iridium 9603N transceiver from Iridium®, the world's smallest commercially available satellite transceiver. Coupling a 9603N to our PCB with a high-performance 32-bit micro-controller, the MAX9603-PCB enables control of a 48-channel industry leading GPS, 12-bit analog-to-digital converter, general purpose digital input/output channels, and more. Accessible through a convenient DB15 female connector, the MAX9603-PCB can be used in harsh automotive environments thanks to the in-built transient voltage protection. An on-board monitor allows accurate measurement of the input supply voltage allowing adaptive GPS and sensor acquisition as well as data transmission schemes. Designed to be incorporated into your existing product, the MAX9603-PCB allows for easy integration of Iridium Satellite communications into third party product.

Electrical Specification

Parameter	Specification
Operating Voltage	7-28 VDC
Operating Current	100 μ A mA standby / 0.6 A peak @ 12 V

Communication Specification

Parameter	Specification
Transceiver	Iridium 9603N
3.3V serial only. Accepts MAX9603 extended AT commands and Iridium AT commands.	

Mechanical Specification

Parameter	Specification
Dimensions	2 x 1.4 x 0.5"
Weight	20 g
Operating Temperature	-40 to 70 °C
Operating Humidity	$\leq$ 75 % RH



Features

- Controller for Iridium® 9603N SBD transceiver
- 48 channel SiRFstar/VTM chipset based GPS
- Serial interface for 3rd party equipment or PC control
- Wide supply voltage range (7– 28 VDC)
- Fused 5V switched power output for external devices
- Two 12 bit Analog to Digital (ADC) inputs
- Two Digital I/O's (configurable as panic input)
- Transient voltage protection
- Ultra-low standby power consumption (< 100 μ A)
- OEM and standalone versions available
- Extremely small solution size (2 x 1.4 x 0.75 ")
- Easy integration into OEM products with a convenient DB15 interface
- Application Programming Interface support through extended AT commands

Applications

- Fleet Management
- Remote Data Telemetry
- Personal and Asset Tracking
- Personal Communications (Email)
- Industrial Monitoring and Control



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