

RFID Reader/Writer Expansion Module

The RFID expansion module for the Safari™ features a 13.56MHz contactless r/w module that is compatible with a wide variety of tags that are compliant with the ISO 15693 standard.

The RFID expansion module fastens to the back of the Safari hand held computer via 4 mounting screws (included). An expansion module connector located on the back of the Safari provides the power and is the communications interface to the device.

A comprehensive Programmer's manual is supplied, allowing the RFID capability to be integrated seamlessly into your application.

Protocol Standard	ISO 15693
Operating Frequency	13.56MHz
Storage Temperature	-10°C to +60°C
Operating Temperature	0°C to +50°C
Read Distance	10cm (tag dependant)
Host Interface	RS232 (TTL 3.3VDC level)
Host Communication Baud Rate	115.2kbps
Power Source	+3.3VDC



GPS Expansion Module

The GPS expansion module for the Safari employs the SiRF Star III high performance GPS Chip Set providing solid, trouble free GPS performance. It features very high tracking sensitivity (-159 dBm), and extremely fast TIFF (Time To First Fix) at low signal levels. The GPS receiver can deliver its data in NMEA 0183 format, or in the SiRF binary protocol.



Contact us today for information on additional Safari options/accessories.

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GENERAL

Chipset SiRF Star III
Frequency L1 band - 1575.42 MHz
C/A code 1.023 MHz chip rate
Channels 20 channel all-in-view tracking
Sensitivity -159 dBm

ACCURACY

Position 10 meters, 2D RMS
5 meters, 2D RMS, WAAS enabled
Velocity 0.1 m/s
Time 1 us synchronized to GPS time

DATUM

Default WGS-84

ACQUISITION TIME

Reacquisition 0.1 sec., average
Hot start 1 sec., average
Warm start 38 sec., average
Cold start 42 sec., average

DYNAMIC CONDITIONS

Altitude 18,000 meters (60,000 feet) max
Velocity 515 meters /second (1000 knots) max
Acceleration Less than 4g

INTERFACE

Baud rate 4,800 to 57,600 bps adjustable



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