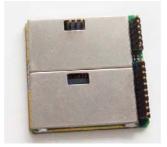
ZX4125 GPS Module Specification



Brief Introduction

ZX4125, the 16-channel, self-contained GPS receiver module, is intended to be used as an add-on board on system requiring GPS real time data. It contains a passive antenna, a 16- channel, ultra low power and high sensitivity GPS chipset, and flash memory needed to support the navigation SW. The navigation data base is located in the ZX4125, while the application SW and the mapping information stay on the host device.

ZX4125 interfaces with the host device via UART (TTL).

Key Features and Benefits

- Plug & Go GPS receiver module
- Compact design :25mm x 25mm x 2.5mm •
- Two antenna outlets with auto-detect switch •
- Simple UART interface •
- Ultra low power consumption $\approx 27 \text{mA} 3.0 \text{V}$ •
- High sensitivity -147dBm •
- Position accuracy: 3m CEP (50%), 7m CEP (90%) without SA (horizontal)

Performance Specifications

Frequency	1575.42MHz-L1 C/A Code	Cold Start Time	45 sec.
I/O Port	UART interface	Warm Start Time	38 sec
Protocol	NMEA 0183	Hot Start Time	10 sec.
GPS Channel	16 Channels	Reacquisition	100ms
Operating Voltage	$3.0 \text{ V} \sim 6.0 \text{ V}$	Update Rate	1Hz
Operating	$-40^{\circ}C \sim +85^{\circ}C$	External Antenna	$2mA \sim 25mA$
Temperature		Current Range	
Power	27mA	I/O Connector	1.27mm Pin Header
Consumption			
Position Accuracy	3m CEP(50%), 7m EP(90%)	Tracking Sensitivity	-147dBm
V Bat Voltage	1.0 V (MIN.), 2.0 V (MAX.)	Dimensions	25mmX25mmX2.5mm
			(Excluding Connector)

Mobile GPS Online® Tel: 613-8230926 (Ottawa Area) **E-MAIL:** sales@mobilegpsonline.com

Address: 387 Stoneway Drive, Ottawa, Ontario, Canada, K2G 6G7 **Toll Free:** 1-866-GPS-9898 Fax: 613-8230926 Web: http://www.mobilegpsonline.com