



A5135-H

Positioning Product

Telematics Platforms
Vehicle / Asset tracking
Timing and Synchronization
Road & Traffic Management
Security & Surveillance
Insurance Telematics
Automotive
Personal trackers
Recreational devices

Concurrent GNSS Module:

The A5135-H is a compact high-sensitivity concurrent GNSS modules that integrates CSR's latest SiRFstarV technology into a single, compact and easy to integrate SMT device. By supporting simultaneous GLONASS, GPS, QZSS and SBAS measurements with the industry's best sensitivity engine, the highest accuracy, ground tracks and fastest time-to-first-fix (TTFF) are ensured even under tough operating conditions. The jammers removal algorithm not only facilitates integration in today's ever more complex communication devices, but guarantees performance even in hostile situations. SiRFaware's advanced low power management modes, high level of integration and multiple communication ports in a small form-factor makes the A5135-H suitable for a broad spectrum of GNSS applications where performance, cost and time to market are prime considerations.

Features

GPS / GLONASS concurrent GNSS module

BeiDou / Galileo ready

Pin-to-pin compatible with A2235-H

Lowest tracking power consumption SiRFawareTM for constant Hot Start

Benefits

- Improved availability and accuracy in urban canyon environments
- Future-proof design
- Fastest design-in
- Ideally suited for battery powered GPS applications

GNSS solutions for many applications

With the mission of facilitating our customers' implementation of GNSS functionality into their systems, Maestro Wireless Solutions offers a distinct product portfolio that addresses a wide area of applications. These range from traditional telematics solutions to latest highly integrated consumer devices, all of which dictate distinct requirements for GNSS modules. Based on SiRFstarIV and SiRFstarV chipsets, Maestro Wireless Solutions' GNSS module solutions address different specific needs and combine high performance, low power consumption, and simplified integration effort. Our modules comply with the RoHS standard, are submitted to tough reliability processes and are 100% test, both electrically and functionally prior to packaging, thereby guaranteeing the highest of quality products.



Ordering information:

Evaluation Kit:

Technical Details A5135-H

PERFORMANCE

Channels	52	
Frequency	GPS LI - 1,575 MHz GLONASS - 1,602 MHz	
Sensitivity ¹	GPS	GLONASS
Tracking	- 165 dBm	- 163 dBm
Navigation	- 160 dBm	- 159 dBm
Acquisition (cold start)	- 147 dBm	
Position Accuracy ²⁾ (horizontal)	< 2.5 m CEP (autonomous) < 2.0 m CEP SBAS	
Time To First Fix		
Hot Start ²⁾	< 1 s	
Warm Start ²⁾	< 30 s	
Cold Start ²⁾	< 35 s	
Navigation		
Update Rate	1 Hz / 5 Hz Sup	ported

COMMUNICATION

UART - OSP		
Open Socket Protocol	Protocol extension for SiRFstarV	
Baud rate Switchable	115.2k (default) 1,200 to 115.2k	
Ports	Tx (Binary output) Rx (Binary input)	
UART - NMEA (default)		
NMEA message Switchable	GGA, RMC, GSA, GSV, VTG, GLL, ZDA	
Baud rate Switchable	1,200 to 115.2k Default 9600	
Ports	Tx (NMEA output) Rx (NMEA input)	

HIGHLIGHTS

SiRFnav™	High availability and coverage; improved TTFF in weak signal environments
SiRFaware™TM	
Jammer remover technology	Detects and removes up to 8 in-band jammers with minimal loss of sensitivity
A-GPS	Embedded Extended Ephemeris (SiRFInstantFix) and Ephemeris Push support
MEMS I2C interface	Prepared to use additional sensor information for improved navigation

POWER CONSUMPTION GPS + GLONASS

Supply voltage	3.0 to 3.6 VDC
Average Current Draw	(typical)
Full power mode (Searching) Peak Current	42mA
Full power mode (Searching) Average Current	36mA
Full power mode (Tracking) Average Current	31mA
Trickle Power Mode	29mA
Hibernate Status	27uA

MECHANICAL

Dimensions	
LxWxH	17.78 x 1601 x 2.5 mm
LxWxH	0.7" x 0.65" x 0.1"
Weight	4 g / 0.14 oz.

ENVIRONMENT

Temperature	
Operating	-40°C to +85°C
Storage	-40°C to +85°C
Humidity	Non condensing

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