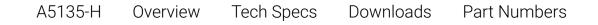
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The A5135-H will track and follow GPS and GLONASS systems concurrently



The A5135-H is a high-sensitivity concurrent GNSS antenna receiver that integrates Qualcomm's SiRFstar V 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-tofirst-fix (TTFF) are ensured even under tough operating conditions.

Product Highlights

- Concurrent GNSS receiver
- Pin-to-pin compatible with A2135-H / A2235-H
- Lowest tracking power consumption
- Download SiRF Live

Key Markets

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A5135-H Overview Tech Specs Downloads Part Numbers

PERFORMANCE

HIGHLIGHTS

Channels	52		
Frequency	GPS LI – 1,575 MHz GLONASS – 1,602 MHz		High availability and coverage; improved TTFF in weak signal environments
Sensitivity1	GPS GLONASS	SiRFnavTM	
Tracking	– 165 – 163 dBm dBm	SiRFawareTMTM	
Navigation	– 160 – 159 dBm dBm		Detects and removes up to 8 in-band jammers with minimal loss of
Acquisition (cold start)	– 147 dBm	Jammer remover technology	
Position Accuracy2) (horizontal)	< 2.5 m CEP (autonomous)		
	< 2.0 m CEP SBAS	A-GPS	Embedded Extended Ephemeris (SiRFInstantFix) and Ephemeris Push support
Time To First Fix			
Hot Start2)	<1s		Prepared to use
Warm Start2)	< 30 s	MEMS I2C	additional sensor
Cold Start2)	< 35 s	interface	information for improved
Navigation			navigation
Update Rate	1 Hz / 5 Hz Supported		

COMMUNICATION

POWER CONSUMPTION GPS + GLONASS



UART - OSP		Supply voltage	3.0 to 3.6 VDC
Open Socket Protocol	Protocol extension for SiRFstarV	Average Current Draw	(typical)
Baud rate Switchable	115.2k (default) 1,200 to 115.2k	Full power mode (Searching) Peak Current	42mA
Ports	Tx (Binary output) Rx (Binary input)	Full power mode (Searching) Average	36mA
UART – NMEA (default)		Current	
NMEA message Switchable	GGA, RMC, GSA, GSV, VTG, GLL, ZDA 1,200 to 115.2k	Full power mode (Tracking) Average	31mA
Baud rate Switchable	Default 9600	Current Trickle Power Mode	29mA
Ports	Tx (NMEA output) Rx (NMEA input)	Hibernate Status	27uA
MECHANICAL		ENVIRONMENT	
Dimensions		Temperature	
L×W×H	17.78 x 1601 x 2.5 mm	Operating	-40°C to +85°C
L×W×H	0.7" x 0.65" x 0.1"	Storage	-40°C to +85°C
Weight	4 g / 0.14 oz.	Humidity	Non condensing