

Home (<https://www.lantronix.com/>) » Products (<https://www.lantronix.com/products/>) » Embedded IoT Solutions (<https://www.lantronix.com/products-class/embedded-iot-solutions/>) » Wireless & GNSS Modules (<https://www.lantronix.com/products-class/wireless-gnss/>) » GNSS / GPS Receivers (<https://www.lantronix.com/products-class/gnss-receivers/>) » A5135-H

[A5135-H](#) [Overview](#) [Tech Specs](#) [Downloads](#) [Part Numbers](#)

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-to-first-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

Home (<https://www.lantronix.com/>) » Products (<https://www.lantronix.com/products/>) » Embedded IoT Solutions (<https://www.lantronix.com/products-class/embedded-iot-solutions/>) » Wireless & GNSS Modules (<https://www.lantronix.com/products-class/wireless-gnss/>) » GNSS / GPS Receivers (<https://www.lantronix.com/products-class/gnss-receivers/>) » A5135-H

[A5135-H](#) [Overview](#) [Tech Specs](#) [Downloads](#) [Part Numbers](#)

PERFORMANCE

HIGHLIGHTS



| | | | | |
|---|--|-----------|---------------------------|--|
| Channels | 52 | | | |
| Frequency | GPS L1 – 1,575 MHz GLONASS – 1,602 MHz | | | High availability and coverage; improved TTFF in weak signal environments |
| Sensitivity ¹ | GPS | GLONASS | SiRFnav™ | |
| Tracking | – 165 dBm | – 163 dBm | | |
| Navigation | – 160 dBm | – 159 dBm | | Detects and removes up to 8 in-band jammers with minimal loss of sensitivity |
| Acquisition (cold start) | – 147 dBm | | Jammer remover technology | |
| Position Accuracy ² (horizontal) | < 2.5 m CEP (autonomous) < 2.0 m CEP SBAS | | | Embedded Extended Ephemeris (SiRFInstantFix) and Ephemeris Push support |
| Time To First Fix | | | A-GPS | |
| Hot Start ²) | < 1 s | | | Prepared to use additional sensor information for improved navigation |
| Warm Start ²) | < 30 s | | | |
| Cold Start ²) | < 35 s | | MEMS I2C interface | |
| 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 Current | 36mA |
| UART – NMEA (default) | | | |
| NMEA message Switchable | GGA, RMC, GSA, GSV, VTG, GLL, ZDA | Full power mode (Tracking) Average Current | 31mA |
| Baud rate Switchable | 1,200 to 115.2k Default 9600 | Trickle Power Mode | 29mA |
| Ports | Tx (NMEA output) Rx (NMEA input) | Hibernate Status | 27uA |

ENVIRONMENT

MECHANICAL

| | | | |
|------------|-------------------------|-------------|----------------|
| Dimensions | | Temperature | |
| L x W x H | 17.78 x 16..01 x 2.5 mm | Operating | -40°C to +85°C |
| L x W x H | 0.7" x 0.65" x 0.1" | Storage | -40°C to +85°C |
| Weight | 4 g / 0.14 oz. | Humidity | Non condensing |

