

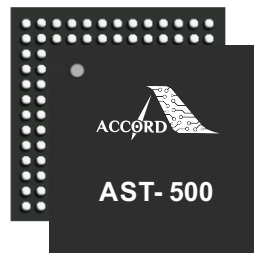
# AST - 500

## NAVIC/GPS/GLONASS/BeiDou Receiver SOC

The AST - 500 is a Multi GNSS baseband Receiver SOC which handles the signals from GPS, GLONASS, NavIC, BeiDou, GALILEO, QZSS and GAGAN (L1/L2/L5 and S band) constellations.

The dual band reception capability of this chipset provides robust positioning performance with elimination of ionosphere errors. The multi-GNSS capability coupled with wide bandwidth signal processing brings superior navigation performance in urban settings. The SoC also features secure boot and data encryption offering an end-to-end secure solution.

The SoC supports configurable interface options like CAN, UART, SPI, I2C and GPIOs, facilitating integration into multiple application platforms.

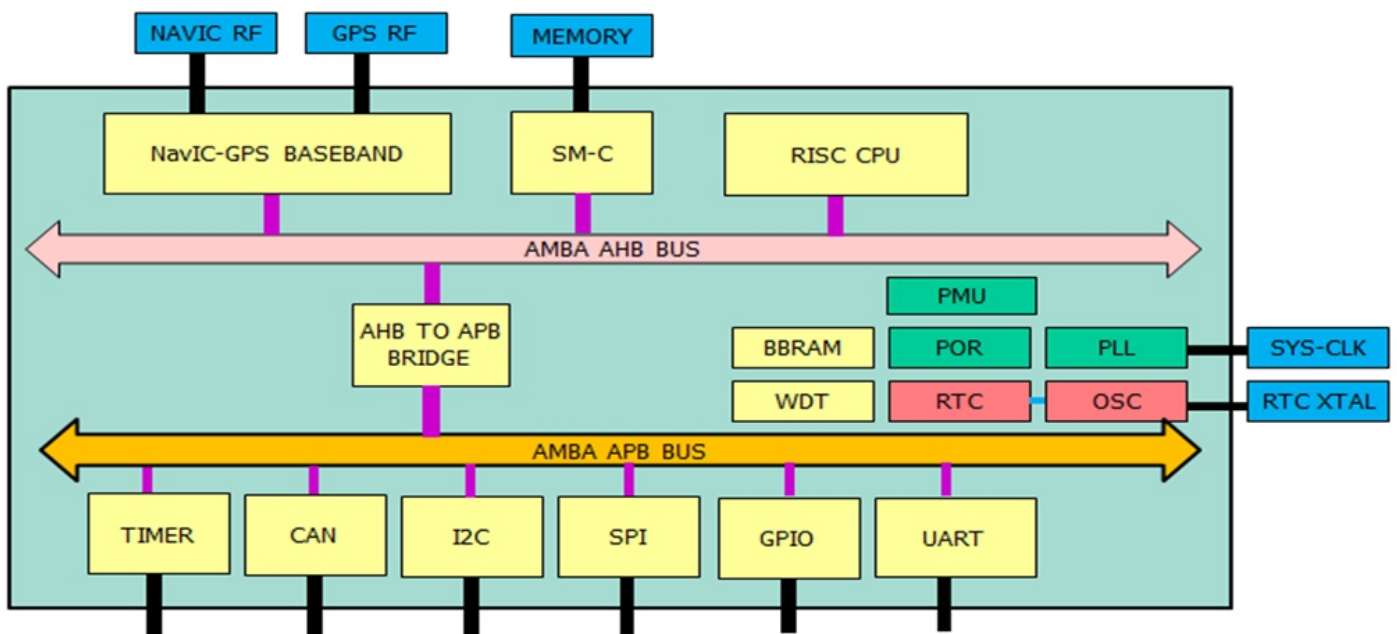


### Features

- AST - 500 Receiver SOC supports Multi-Constellation - GPS, GLONASS, NavIC, GALILEO, BeiDou, QZSS and GAGAN (L1/L2/L5 and S band)
- This Baseband supports concurrent processing of any 2 GNSS frequency bands
- CPU Subsystem
  - ▲ Dual core 440MHz CPU with Double Precision Floating Point H/W
  - ▲ 8Mbits SRAM, 32Kbytes of Battery Backed RAM, ROM, Data and Instruction Cache
  - ▲ 3 UARTs, 2 SPIs, 1 QSPI, 2 I2C, 2 CANs, 6 Timers, 2 Cycle counters, External Memory Interface, GPIOs, XIP Flash interface, JTAG
- Position update rate of 1 Hz to 10 Hz
- Multipath mitigation
- Anti-jamming - 16 tone interference mitigation
- Advanced Spoofing detection
- In-built Power Management Unit
  - ▲ Single supply 2.7V to 3.3V
- 16 tone interference mitigation
- Advanced Anti-Spoof algorithms
- -40°C to +85°C Operating Temperature
- Package Supported : 9x9 BGA with 256 balls, 5x5 BGA with 81 balls

## Applications

- Tracking (Vehicles, Flights, Vessels, Personal, Pets Etc.)
- Weather Forecasting/ Telecommunication
- Land surveying (GIS Mapping), Mining
- Law Enforcement
- Disaster Management
- Emergency response
- Maritime/ Space (Satellite launch vehicles, Satellites)
- Precision Agriculture
- UAV's and Drones



## Accord GNSS Baseband SOC with Dual RF Interface

\* Information mentioned in this document is subject to change. Please contact us for more details.