TESEOII: GPS/Galileo/GLONASS/QZSS standalone receiver

STMicroelectronics

NEVER SHADOWED AGAIN WITH TESEOII

The new trend in automotive applications

Position accuracy is a key factor in automotive applications such as navigation and telematics. ST's new TeseoII positioning IC reaches a high level of position accuracy even in urban canyon conditions because it is able to simultaneously handle GPS (US), Galileo (Europe), GLONASS (Russia) and QZSS (Japan) satellite constellations. TeseoII will also be able to handle the future BeiDou (China) constellation.

Key features

- Multi-constellation single-chip receiver
- ARM946 microprocessor
- ST-AGPS support
- Automotive grade
- World's richest set of interfaces/peripherals
  - GPIOs, UARTs, SPI, I²C
  - MSP, SD/MMC, CAN 2.0
  - USB 2.0 FS PHY
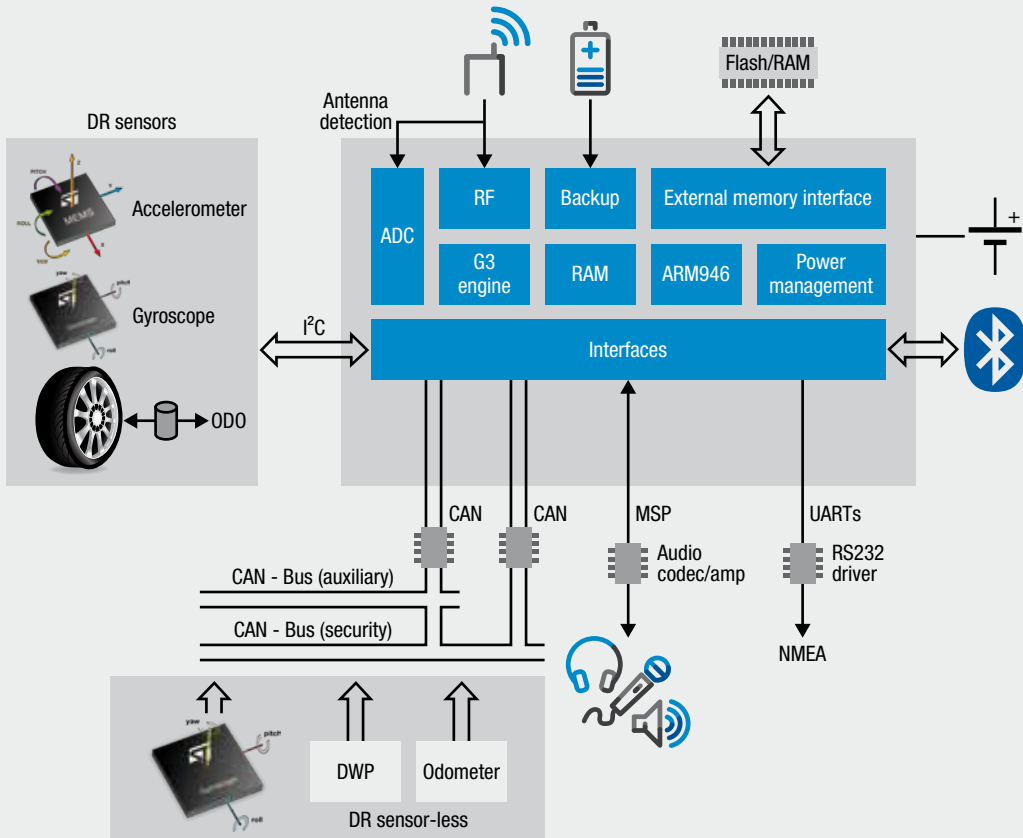 - External memory interface
  - ADC

Key benefits

- Accurate position
- 3D fix also in urban canyon conditions
- Fast time to first fix (TTFF)

Target application

- eCall
- Insurance boxes
- Fleet management
- Road tolling
- Vehicle tracking
- ADAS

Teseoll application block diagram

Teseoll family options

- STA8088EXGA system on chip (SoC) housed in
  - TFBGA169 9 x 9 x 1.2 mm, 0.65 mm pitch
  - TFBGA169 12 x 12 x 1.2 mm, 0.8 mm pitch
- STA8088GA standalone housed in
  - VFQFPN56 7 x 7 x 0.85 mm, 0.4 mm pitch
  - VFQFPN56 8 x 8 x 0.85 mm, 0.5 mm pitch