

# ACCORDO2

## Dual-Core Processor for 2-Wheeler Digital Instrument Clusters

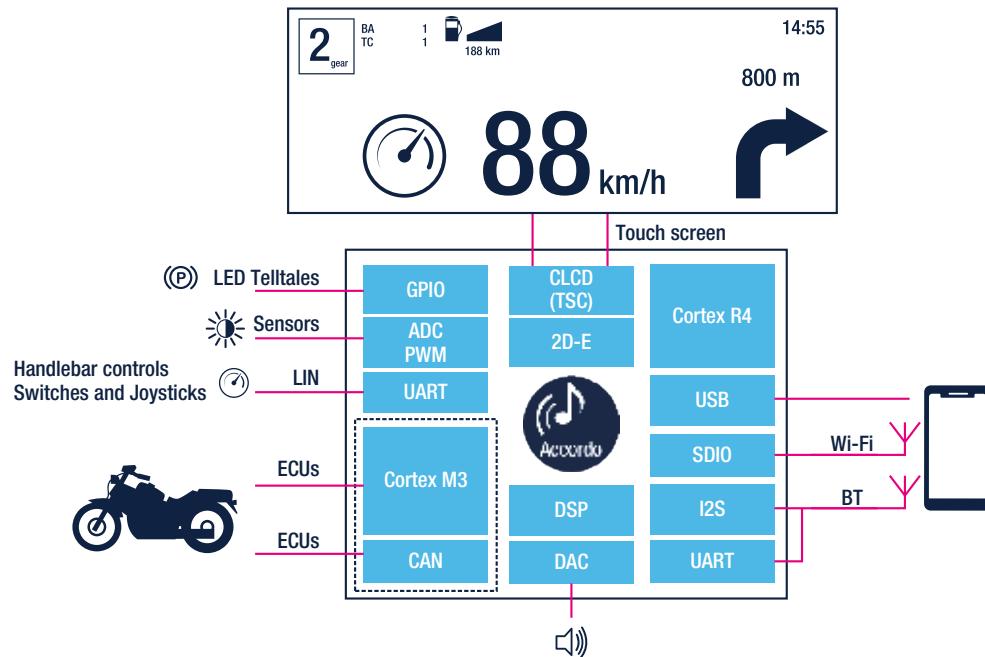
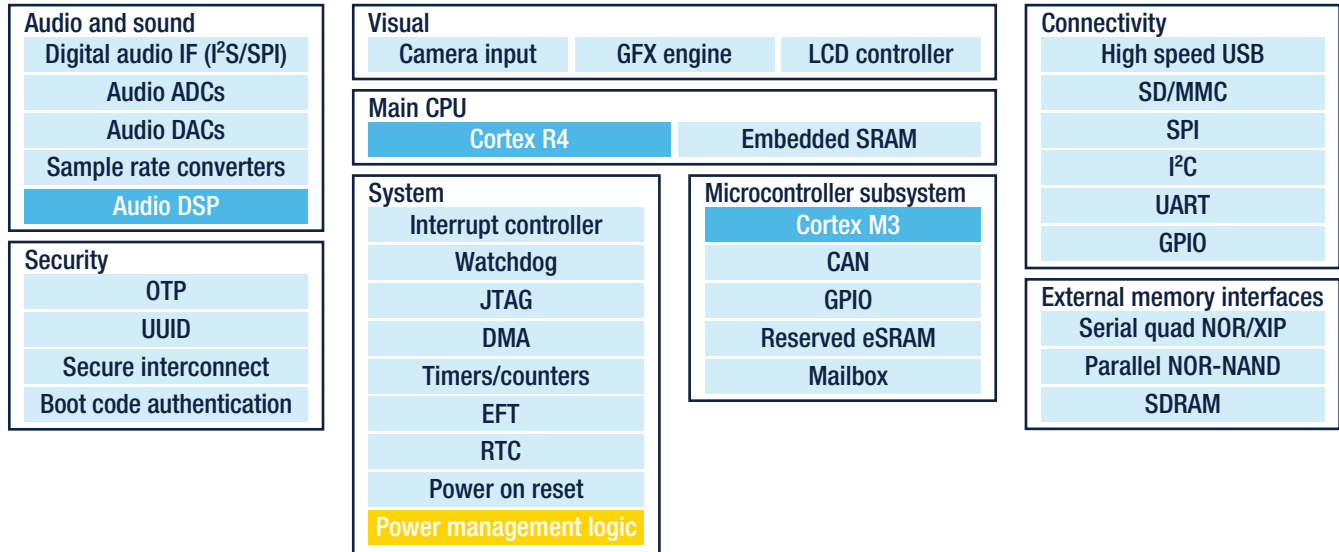


### One-chip solution with turnkey software for media, smartphone connectivity and enhanced graphic

Design attention-grabbing graphical clusters that provide more information and a better driving experience. Offering a powerful 2D graphics accelerator and TouchGFX engine, ST's Accordo2 also eases integration with smartphone connectivity via USB, Bluetooth or Wi-Fi. Our intuitive TouchGFX Designer GUI builder software reduces design time and cost. A flexible memory configuration lets you implement very low-cost systems based on a real-time OS up to demanding applications based on Linux OS.

#### KEY FEATURES & BENEFITS

- Arm® Cortex-R4 core at 450+ MHz with integrated eSRAM
- Secure Arm® Cortex-M3 system for CAN access
- Powerful audio subsystem with 450+ MIPS DSP capability
- LCD and touchscreen controllers
- 2D GFX engine
- ITU601/656 video input port
- Fully-integrated connectivity set: HS USB 2.0 Host and Device, SD/SDIO, CAN, SPI, I2C, UART, and more
- Integrated power management
- Up to WVGA resolution
- Up to 60fps frame rate.
- Easy HMI design with TouchGFX
- Efficient graphics accelerator
- T-Kernel support for fast, robust, small footprint operations
- Support of smartphone connectivity for telephony, navigation, and cloud enabled use-cases
- Complete turnkey media software offering with Sound Effects, Audio Codecs, Media Player, Media Library, and iAP2 Control Library



## Device summary

| Part number | CAN microcontroller support |
|-------------|-----------------------------|
| STA1090     | No                          |
| STA1095     | Yes                         |

## Package information

361-ball LFBGA: 16 x 16 x 1.7 mm, 0.8 mm pitch

## Operating conditions

VDD: 1.14 to 1.26 V  
 VDDIO: 3.3 V ±10%  
 VDDIOON: 3.3 V ±10%,  
 Operating temperature range: -40/+85 °C  
 Automotive Grade



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