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## 32-Bit Microcontroller with CAN

MCF521X Receive alerts ①

Overview Product Details Documentation Design Resources Training Support BUY/PARAMETRICS (/PRODUCTS/PROCESS

The MCF521X microcontroller family is a cost-effective, low-power single-chip solution with up to 521 KB of high-performance, near-single access, interleaved and securable embedded flash memory. Moreover, the MCF521X embedded controller communication peripherals provide easy connection to other systems. Three universal asynchronous receiver/transmitters (UARTS) enable medium-to long-distance communication to other control systems or computers. An inter-integrated circular (CC) and queued serial peripheral interface (QSPI) enable in-system communication to connected peripherals and systems, including LCDs and keyboards. This is offered along with the high-performance ColdFire® V2 core that even incorporates a multiply and accumulate module (MAC)-enhanced multiply and accumulate module (eMAC) for DSP-like operation.

**DATA SHEET** 

REFERENCE MANUAL

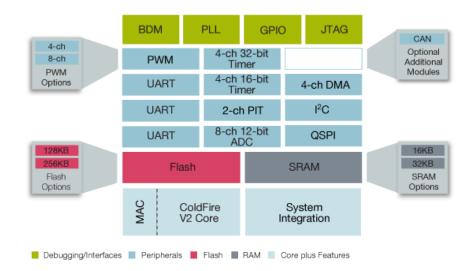
#### **Product Details**

Block Diagram | Features | Comparison Table

#### **Block Diagram**

### ColdFire MCF521X Microcontroller Block Diagram





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#### **Features**

- Up to 512 KB embedded flash memory
- Up to 64 KB of static RAM
- Integrated Peripherials:
  - Up to 56 general-purpose input/outputs (GPIOs)
  - MAC/eMAC for DSP functionality
  - o 2.0B controller area network (CAN) interface with 16 message buffers (in MCF5213,MCF5214 and MCF5216)

- Three UARTs with direct memory access (DMA) capability
- o QSPI with four peripheral chip selects
- This product is included in NXP®.s product longevity program (/products/nxp-product-information/nxp-product-programs/product-longevity:PRDCT\_LONGEVITY\_HM), with assured supply for a minimum of 10 years after launch

**Part numbers include:** MCF52110CAE80, MCF5211CAE66, MCF5212CAE66, MCF5212LCVM66, MCF5212LCVM80, MCF5213CAF66, MCF5213CAF80, MCF5213LCVM66, MCF5213LCVM66, MCF5214CVF66, MCF5214CVF66, MCF5216CVF66, M

#### **Comparison Table**

## MCF521X Family Members

MCF5211	MCF5214	MCF5212	MCF5216	MCF5213

### **Documentation**

Quick reference to our documentation types (/design/documentation/nxp-technical-documentation:NXP-TECHNICAL-DOCUMENTATION).

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<ul><li>Application Note</li></ul>	PDF Rev 5 Apr 3, 2011 2.9 MB MCF5213RM English				
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