



### C509 Microcontroller for High Performance Applications

The C509 addition to our C500 family of 8-Bit CMOS controllers covers new applications in the high-end range. The optimized C500 kernel has an instruction cycle of 375 ns (internal/external clock rate of 16 MHz), features an extra arithmetic unit and comprehensive peripherals as a 15- Channel 10-Bit A/D Converter and a 29-Channel Capture/Compare and PWM generation unit. The C509 incorporates a bootstrap loader to support the programming of external Flash memories up to 128 KByte. Typical applications for the C509 are sophisticated motor management systems and other high-end applications. In these domains the chip offers an attractive price-performance ratio.

#### ► C509

8-bit microcontroller

#### [Related Solutions/Applications](#)

#### Typelist (for details see [Parameterlist](#))

Product Type	Attachment	Description	Order Code
C509-L	N/A	xx	obsolete
SAB C509-LM	N/A	8-Bit CMOS Microcontroller for external memory (16MHz)	Q67121-C1045
SAF C509-LM	N/A	8-Bit CMOS Microcontroller for external memory (16MHz)	Q67121-C0983
SAH C509-LM	N/A	8-Bit CMOS Microcontroller for external memory (16MHz)	obsolete
SAK C509-LM	N/A	8-Bit CMOS microcontroller for external memory (16MHz)	on request

#### Additional Documentation and Information:

##### Datasheet

Description	Date/State	Size
<a href="#">C509-L Datasheet</a> (d509.pdf)	09.96   OK	1.46 MB

##### User's Manual

Description	Date/State	Size
<a href="#">C509 Users Manual</a> (m509.pdf)	11.97   OK	1.76 MB

##### Product Family Overview

Description	Date/State	Size
<a href="#">C509 - Product Overview</a> (p509.pdf)	09.95   OK	300 kB

##### Errata Sheet

Description	Date/State	Size
<a href="#">C509-L BB Step</a> (bbr15.pdf)	12.95   Rel. 1.5	39 Byte
<a href="#">C509-L ES-CA Step</a> (c11r11.pdf)	05.96   Rel. 1.1	38 Byte
<a href="#">C509-L DB Step</a> (dbr10.pdf)	07.97   Rel. 1.0	23 Byte

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