SIEMENS

C501 Enter the world of Siemens 8-Bit microcontrollers

The C501 is the perfect replacement to the 80C52 standard microcontroller.

This commodity microcontroller is maintaining all architectural and operational characteristics of the 80C52 and can be found in all segments like automotive, industrial, consumer, telecom and datacom segments.

The Siemens C500 family of 8-Bit microcontrollers is based on the C500 Core.

This core shows a higher performance than the standard 8051 core while all derivatives are

fully compatible in architecture and software.

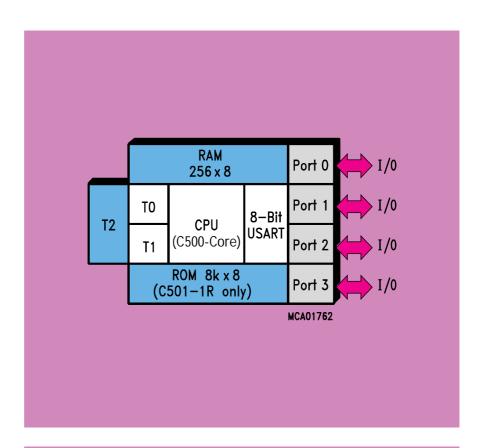


- 300 ns Instruction Cycle Time at 40 MHz oscillator frequency
- Six Interrupt Vectors with two Priority Levels
- 8 KByte On-Chip ROM. ROM-Protection available.
- 256 Byte On-Chip Internal RAM
- Supports external Address
 Range up to 64 Kbyte Program
 and Data Memory.
- Full Duplex Serial Interface with Asynchronous and Synchronous Modes.

- Three 16-Bit Timer/Counters (Timer 2 with UP/Down-Count Feature).
- Power Saving Modes
- 32 Multifunctional Input/Output Pins
- P-DIP-40, P-LCC-44 and P-MQFP-44 packages
- P-LCC-44 compatible to C502 and C511/C513-Family
- P-MQFP-44 compatible to C504
- Temperature ranges:
 Standard 0°C to 70°C
 Extended -40°C to +85°C



C501 Block Diagram



C501 Pin Configuration

