



87C196KD

16-bit High Performance Microcontroller

Manufactured by Eltek Semiconductors Ltd. using genuine **Intel** die, this device is 100% interchangeable with the original device offered by Intel for military applications.

The 87C196KD microcontroller is a high performance member of **Intel's MCS®-96** microcontroller family. The 87C196KD is an enhanced device with 1Kbytes RAM, 16 or 20 MHz operation and 32Kbytes of on-chip EPROM.

These devices are UV erasable and are offered in either ceramic 68-pin grid array or 68-lead ceramic quad flat pack with a window lid.

Four high-speed capture inputs are provided to record times when events occur. Six high-speed outputs are available for pulse or waveform generation. The high-speed output can also generate four software timers or start an A/D conversion. All events can be based on the timer or up/down counter.

MCS®-96 is a registered trademark of Intel Corporation

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KEY SPECIFICATIONS

- -55 to125 C operation
- 32 Kbytes on-chip RAM
- 232 byte register
- 768 bytes additional RAM
- Register to register architecture
- 28 interrupt sources / 16 vectors
- Peripheral transaction server
- 1.75µS 16 x 16 multiply (16MHz)
- 3.0µS 32/16 divide (16MHz)
- Powerdown and idle modes
- Five 8-bit I/O ports
- 16-bit watchdog timer
- Full duplex serial port
- High speed I/O subsystem
- 16-bit up/down counter with capture
- 3 pulse-width-modulated outputs
- Four 16-bit Software Timers
- 8- or10-bit 8-channel A/D converter with sample/hold
- HOLD/HDLA bus protocol
- UV erasable EPROM
- Available in 16MHz and 20MHz versions
- Dynamically configurable 8-bit or 16-bit bus-widths

PART NUMBERS AVAILABLE

