

## ID MOS Digital I.P. SHORTFORM

### IM196: Interrupt Controller

#### PRODUCT DESCRIPTION

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**The** Interrupt Controller is a stand-alone device that enables to extend the number of the interrupt inputs of a microprocessor (microcontroller). It detects interrupt events from the external sources and places single interrupt request to the microprocessor (microcontroller). It controls the execution sequence of the incoming interrupt requests.

#### FEATURES

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- 8 maskable interrupt inputs
- Two priority groups of each interrupt input: High priority group and Low priority group
- Two sensitivity types of each interrupt input: Level-sensitive type and Edge-sensitive type
- Maximum Interrupt Event Frequency:  $\frac{1}{2}$  of the clock frequency

#### TYPICAL APPLICATIONS

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- Interrupts Extended Capability
- Real time application
- External Event management

#### BLOCK DESCRIPTION

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