

990986



VL82C88 PRODUCT BRIEF

CMOS BUS CONTROLLER

FEATURES

- Compatible with 8086, 8088 and similar microprocessors
- Three-state command output drivers
- Low-power CMOS technology
- Fully compatible with HMOS 8288
- Advanced commands provided
- Wide flexibility in system configurations
- Can be used with an I/O bus
- Interface to up to two multi-master buses
- Single 5 V power supply

DESCRIPTION

The VL82C88 Bus Controller is a CMOS device intended for use with medium-to-large 8086- and 8088-type microprocessor-based systems. The bus controller provides command and control timing generation, as well as bus drive capability, for optimizing system performance. The VL82C88 decodes the three status lines from the system microprocessor to generate the command and control signals at the specified time.

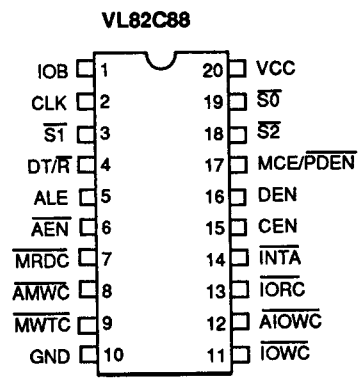
The VL82C88 bus controller generates commands in two ways:

I/O Bus Mode - The VL82C88 is in the I/O Bus mode if the IOB pin is tied HIGH. In the I/O Bus mode, all I/O command lines (IORC, IOWC, AIOWC, INTA) are always enabled.

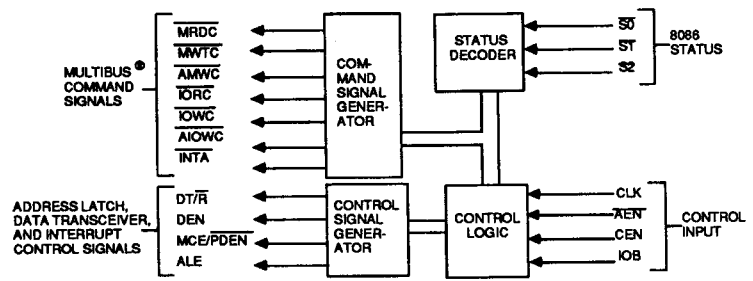
System Bus Mode - The VL82C88 is in the System Bus mode if the IOB pin is tied LOW. In this mode, no command is issued until 115 ns after the AEN Line is activated.

The 20-pin, low-power-consuming, CMOS VL82C88 is available in 8 MHz and 10 MHz clock frequencies.

PIN DIAGRAM



BLOCK DIAGRAM



ORDER INFORMATION

Part Number	Clock Frequency	Package
VL82C88-08PC	8 MHz	Plastic DIP
VL82C88-08QC		Plastic Leaded Chip Carrier
VL82C88-08CC		Ceramic DIP
VL82C88-10PC	10 MHz	Plastic DIP
VL82C88-10PC		Plastic Leaded Chip Carrier
VL82C88-10CC		Ceramic DIP

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Note: Operating temperature range: 0° to +70°C.