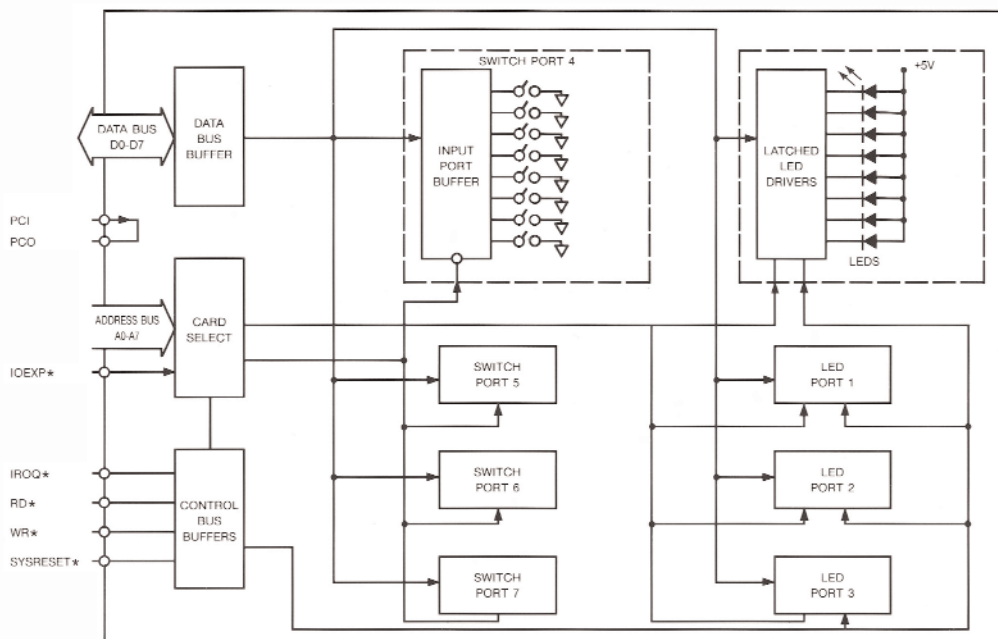
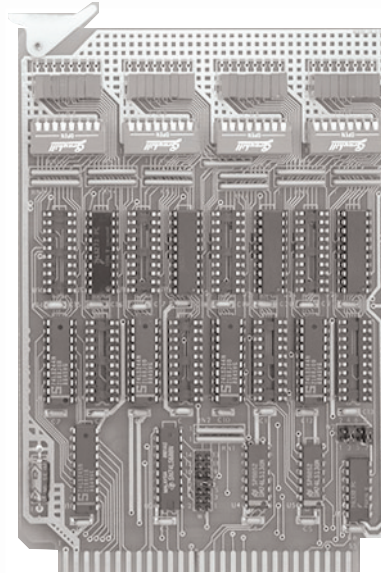


FEATURES

- 32 Light Emitting Diodes for visual status configured as 8 Green and 24 Red LEDs
- Wide viewing angle on the LEDs
- 32 input switches
- Processor independent including 80186, V50, V40, 80188, NSC-800, HD64180, Z80, and 8085
- Simple program control of LEDs and switches
- Operation to 12 MHz
- Jumper selectable I/O addressing
- IOEXP supported
- +5 Volt operation
- Operational temperature range: 0°C to +65°C

The MCM-STATUS is a general purpose status and diagnostic card that provides 32 switch input and 32 LEDs on a single STD Bus card. It is suitable for applications where a low cost interface is needed for manual switch inputs and visual status for system testing, diagnostics or on-site configuration. The card is I/O mapped and processor independent including the 80186, V50, 80188, V40, 8088, HD64180, Z80, NSC-800, and 8085A.



FUNCTIONAL CAPABILITY

Bus Interface - Full data, address and control line buffering is provided to and from the bus. All I/O mapped STD Bus processors including the 80286/386sx, 80186, V50, 80188, V40, 8088, HD64180, Z80, NSC-800, and 8085A are supported operating with up to a 12 MHz system clock.

Addressing - The MCM-STATUS is configured for 8-bit I/O addressing. A total of 8 consecutive I/O addresses are required and it is selectable on any even 8-port boundary. Address line A0 through A7 select the card by a jumper selectable decoded combination. IOEXP is decoded as active high, active low, or don't care.

Configuration - The MCM-STATUS is the WinSystems' MCM-7604 parallel input/output card populated with switches and LEDs. The card is decoded as 4 input ports and 4 output ports for a total of 64 I/O lines. The first 4 contiguous ports contain the LEDs and the last 4 port contain the switches. The LEDs are nearest the edge of the board so they can be seen by the user while the card is plugged inside the card cage.

The MCM-STATUS is very easy to use. No complicated peripheral chip initialization routines are required to access the board, just simple I/O port Read or Write commands.

Switch Input Ports - The noninverting input STD Bus data bus buffers are connected directly to each respective SPST piano type DIP switch. Data is gated onto the STD Bus when the respective port is Read.

The switches are organized in four groups of eight stations for a total of 32 points. Each input line is equipped with a pull-up resistor to assure that unconnected lines do not float when the switch is Open. Closing the switch connects the input to ground.

LEDs - Output data from the STD Bus is latched into the data bus buffer of the MCM-STATUS and a visual status of the line is displayed by the respective LED. The output latches are cleared by SYSRESET* or by a power-on reset.

Eight green (port 0) and 24 red (ports 1-3) low profile LEDs are mounted on the board. They have a diffused lens which offer a wide viewing angle.

SPECIFICATIONS

Electrical

All STD Bus processors with I/O mapping are supported with system clock to 12 MHz.

I/O Addressing: Jumper selectable on any even 8 port boundary

Vcc = +5V \pm 10% at 900 mA typ. (with all LEDs and switches ON)

Mechanical

Dimensions: Meets all STD Bus mechanical specifications; 6.5 x 4.5 inches

PC Board: FR4 epoxy glass. Solder mask on both sides, screened component legend and plated through holes.

Connectors

STD Bus: 56-pin dual 0.125 inch centers
Jumpers: 0.025" square posts

Environmental

Operational Temperature: 0°C to +65°C
Non-condensing relative humidity: 5% to 95%

ORDERING INFORMATION

MCM-STATUS Switch input and LED display card

