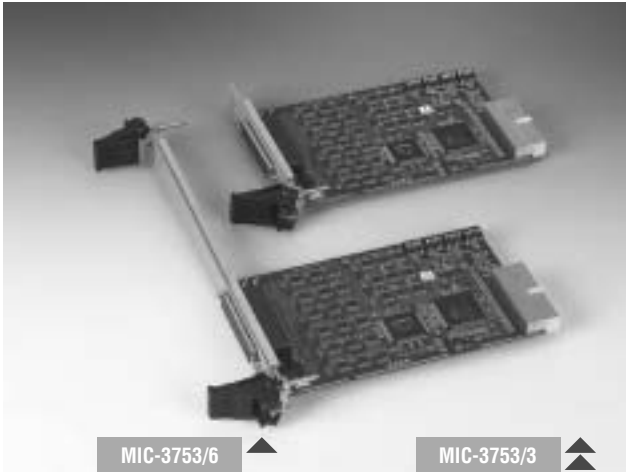


MIC-3753

72-ch Digital I/O Card



CE

Features

- 72 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than 8255
- Multiple-source interrupt handling
- Interrupt output pin for simultaneously triggering external devices with the interrupt
- Output status read-back
- "Pattern match" and "Change of state" interrupt functions for critical I/O monitoring
- Keeps I/O setting and digital output values when hot system reset
- Supports dry contact and wet contact

Introduction

The MIC-3753 is a 72-channel digital I/O card for the PCI bus. The card emulates mode 0 of the 8255 PPI chip, but the buffered circuits offer a higher driving capability than the 8255. The 72 I/O lines are divided into nine 8-bit I/O ports: A0, B0, C0, A1, B1, C1, A2, B2, C2. Users can configure each port as input or output via software.

Dry Contact Support for Digital Input

Each digital input channel of the MIC-3753 accepts either 0 ~ 5 V_{DC} wet contact or dry contact inputs. This dry contact capability allows the channels to respond to changes in external circuitry (e.g., the closing of a switch in the external circuitry) when no voltage is present in the external circuit.

Reset Protection Fulfills the True Requirement of Industrial Applications

When the system is hot reset (the power is not turned off), the MIC-3753 can either retain the value of the last I/O port settings and outputs, or return to its default configuration, depending on the jumper setting. This function protects the system from wrong operations during unexpected system resets.

Specifications

Digital Input

- **Channels** 72 (shared with output)
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.
- **Interrupt Capable Ch.** 6 (2 for each C port)

Digital Output

- **Channels** 72 (shared with input)
- **Compatibility** 5 V/TTL
- **Output Voltage** Logic 0: 0.44 V max. @ 24 mA
Logic 1: 3.76 V min. @ 24 mA
- **Output Capability** Sink: 0.44 V max. @ 24 mA
Source: 3.76 V min. @ 24 mA

General

- **PICMG Compliance** CompactPCI V2.0, R 2.1
Hot-Swap V2.1, R 2.0
- **Bus Type** CompactPCI
- **I/O Connectors** 1 x 78-pin D-type female connector
- **Dimensions** 160 x 100 mm (6.9" x 3.9") with 3U/6U Bracket
- **Power Consumption** Typical: +5 V @ 400 mA
Max.: +5 V @ 0.7 A
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- **Operating Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Certifications** CE

Ordering Information

- **MIC-3753/3** 3U CompactPCI 72-ch Digital I/O card
- **MIC-3753/6** 6U CompactPCI 72-ch Digital I/O card
- **MIC-3753R/3** 3U CompactPCI 72-ch Digital I/O card with Rear I/O support
- **MIC-3753R/6** 6U CompactPCI 72-ch Digital I/O card with Rear I/O support
- **PCL-10178-1** DB-78 cable assembly, 1 m
- **ADAM-3978** DB-78 wiring terminal for DIN-rail mounting