PCI-Bus 96-Bit Digital I/O Card CE
Model PCI-1753

The PCI-1753 is a 96-bit digital I/O card for the PCI bus. The card emulates mode 0 of the 8255 PPI chip, yet has buffered circuitry to offer a higher driving capability than the 8255. The 96 I/O lines are divided into twelve 8-bit I/O ports: A0, B0, C0, A1, B1, C1, A2, B2, C2, A3, B3 and C3. Users can configure each port as input or output via software.

Each digital input channel of the PCI-1753 accepts either 0 ~ 5 VDC wet contact or dry contact inputs. This dry contact capability allows the channel 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.

Two lines of each port C (i.e., ports C0, C1, C2 and C3) are connected to an interrupt circuit. The "Interrupt Control Register" of the PCI-1753 controls how these signals generate an interrupt. Two interrupt request signals can be generated at the same time and then software can process these two request signals by the Interrupt Service Routine.

The PCI-1753 also provides "Pattern Match" interrupt function for port A0. The card monitors the state of port A0 and compares them with a pre-set pattern. When the received state matches the pre-set pattern, the PCI-1753 generates an interrupt signal to the system.

"Change of State" interrupt function is provided at port B0. When any signal line of port B0 changes its state, the card generates an interrupt to the system to handle this event.

These interrupt functions release the CPU from the burden of pulling all I/O points, enabling a PC to handle more I/O points with higher performance.
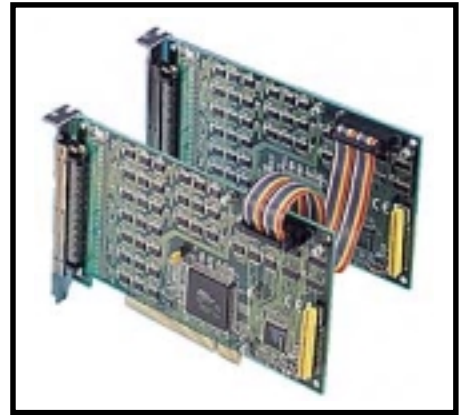
Applications:

Industrial AC/DC I/O devices for monitoring and controlling
Relay and switch monitoring and controlling
Parallel data transfer
TTL, DTL and CMOS logic signal sensing
Indicator LED driving

Specifications:

Channels:	96 digital I/O lines
Programming Mode:	8255 PPI mode 0
Input Signal:	Logic level 0: 0.8 V max.
	Logic level 1: 2.0 V min.
Output Signal:	Logic level 0: 0.44 V max. @ 24 mA (sink)
	Logic level 1: 3.76 V min. @ 24 mA (source)
Transfer Rate:	1.6 Mbytes/sec (tested under DOS, K6 300 MHz CPU)
I/O Connector:	100-pin SCSI-II female connector
Operating Temperature:	32 to 140 °F (0 to 60 °C)
Storage Temperature:	-4 to 158 °F (-20 to 70 °C)
Humidity:	5 to 95% (RH non-condensing)
Power:	5 V @ 400 mA (typical)
	5 V @ 0.7 A (max.)
Dimensions:	6.9 x 3.9 in (17.5 x 10 cm)
Compliances:	CE

Accessory Items:

PCL-10268-2 .... 100-pin to 2x68-pin SCSI-II Cable, 2m
ADAM-3968... 68-pin SCSI-II Wiring Terminal Board, DIN Rail Mount