

Model PCIDCC5/10/20-P

PCI Based 5,10, and 20 Channel Counter/Timer Cards



FEATURES

- **5 Independent 16-Bit Counters**
- **Cascadable Counters**
- **Measures Frequency to 7Mhz**
- **Up/Down and Binary/BCD Counting**
- **Programmed Frequency Output**
- **Alarm Comparators on Two Counters**
- **Supported by Major Application Software Packages**
- **10 or 20 Independent 16-Bit Counters**
- **Binary/BCD - Up/Down**
- **Programmable Count Source/Gate Selection**
- **Programmable Input/Output Polarities**
- **Interrupt Handling**
- **1 MHz TTL Oscillator**
- **Counters Internally Cascadable**



DESCRIPTION

The PCIDCC5/10/20-P family consists of three models, the PCIDCC5-P, PCIDCC10-P, and the PCIDCC20-P. The PCIDCC20-P contains four AM9513 System Timing Controller LSI circuits. Each AM9513 consists of five independent 16-bit up/down counters. The PCIDCC10-P contains two AM9513 circuits and the PCIDCC5-P contains one. The PCIDCC5-P does however, contain an 8-bit input port and an 8-bit output port in addition to the AM9513. The PCIDCC10-P and PCIDCC20-P are physically the same board except for the difference in the number of counters. On the PCIDCC10-P and PCIDCC20-P, the signals for each counter are available on independent 26-pin headers. On the PCIDCC5-P, the signals are available on a DB37 male connector. The counters can be programmed to count up or down in either binary or BCD. A selection of

various internal and external frequency sources and outputs may be chosen as inputs for individual counters with software selectable active-high or active-low polarities. Each counter may be gated by either software or hardware. Each counter has a single dedicated output pin. Considerable versatility for configuring both the input and the gating of individual counters is provided. This not only permits dynamic re-assignment of inputs under software control, but also allows multiple counters to use a single input, allows a single gate input to control more than one counter, and allows for cascading. The PCIDCC5/10/20-P series of adapters is fully PCI 2.1 compliant and thus "Plug-and-Play". The Interrupt Request (IRQ) and Base Address of the adapter is defined by the PCI BIOS. This scheme typically prevents I/O and IRQ conflicts.



SPECIFICATIONS

Model DCC Family

COUNTER TIMER

Counter Type

AM9513

Number of Counters

One offering 5, 10, and 20 independent channels

Counter Clock

1.00 Mhz ($\pm 0.01\%$,
0 to 70° C)

DIGITAL I/O (DCC5-P ONLY)

Number of Lines

8 input and 8 output, latched

Logic

LSTTL

Input Low

-0.5 to 0.8VDC

Input High

2.0 to 5.0VDC

Output Ports

Can drive up to 15 standard TTL loads or 60 low-power Schottky loads

GENERAL

Power Required

+5VDC @ 400mA typical

Software Provided

Sample programs in BASIC & C
Setup Aid Utility

PHYSICAL

Temperature Range

Operating: 0 to +50° C

Storage: -25 to +85° C

Humidity

0 to 90%, RHNC

Size

1/2 Slot

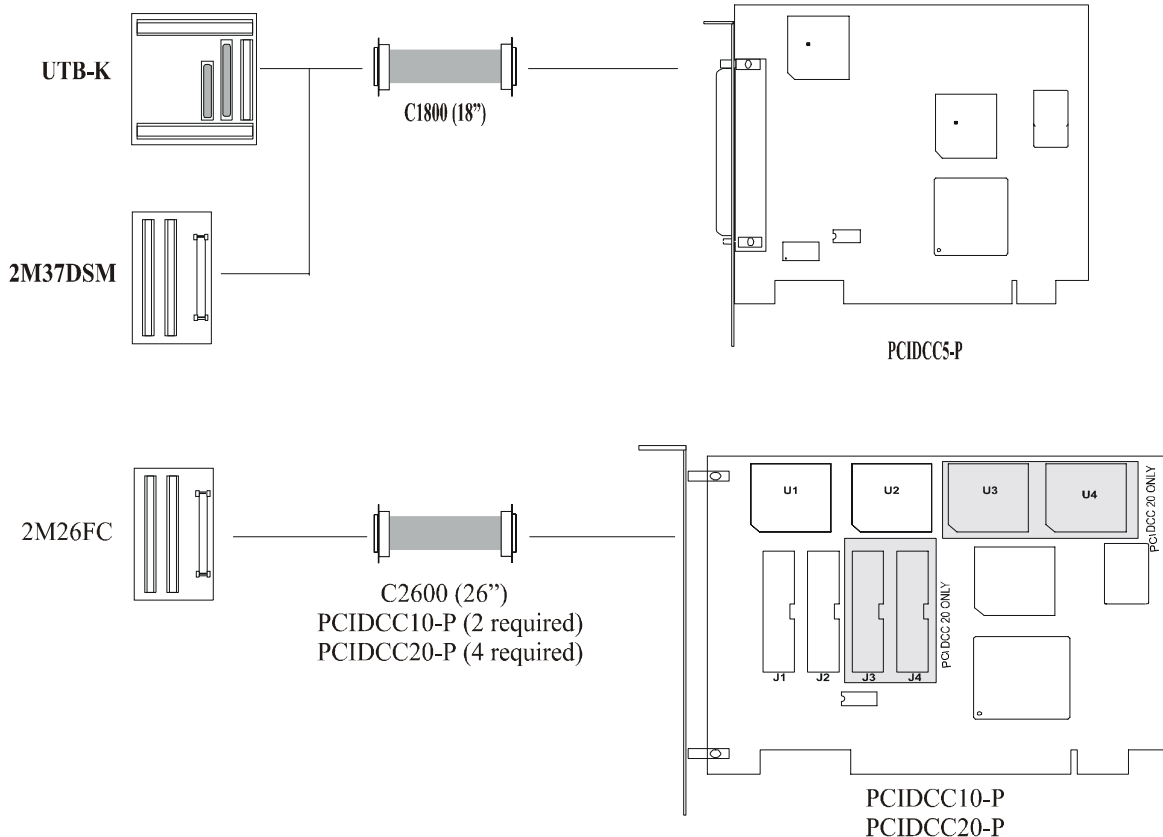
Connector Type

37-pin D-shell, male (PCIDCC5-P)

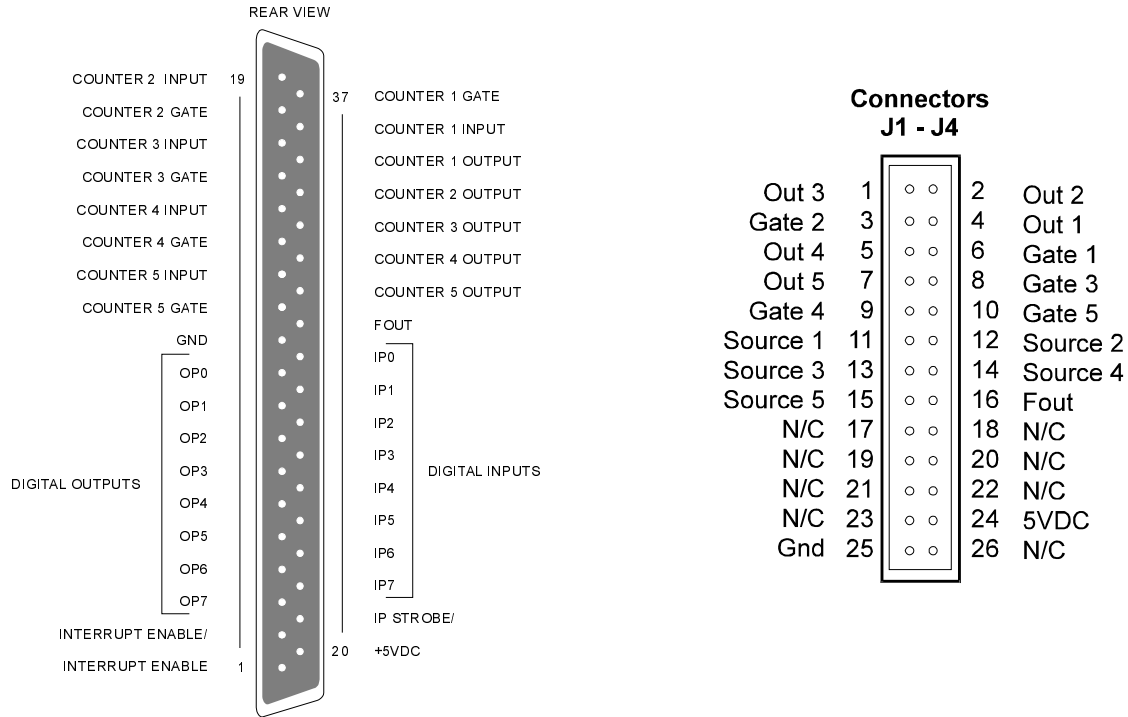
26-pin IDC header (PCIDCC10/20-P)

Agency Approvals

CE Conformity with:
EU EMC Directive
89/336/EEC
EU Low Voltage Directive
72/23/EEC



CONNECTOR PINOUTS



ORDERING GUIDE

MODELS

Model PCIDCC5-P

5 Counter/Timer Card, manual, software

Model PCIDCC10-P

10 Counter/Timer card, manual, software

Model PCIDCC20-P

20 Counter/Timer card, manual, software

ACCESSORIES

Model UTB-K

Termination card/Metal Enclosure

Model UTB

Termination board

Model 2M37DSM

Screw termination panel

Model C1800

18" (487 mm) cable

ACCESSORIES (CONTINUED)

Model 2TK2D-6

6" section of SNAPTRACK

Model TKAD

Din rail mounting clips for SNAPTRACK (2 required)

Model 2M26FC

Termination card for PCIDCC10-P or PCIDCC20-P, one required for each counter chip (maximum of 4)

Model C2600

36" (914 mm) cable for interface between PCIDCC10-P or PCIDCC20-P & 2M26FC, one required for each counter chip/termination card (maximum of 4)



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