DASP-52010

10-Channel Counter/Timer Card

Features

- ▶ **8 independent 16-bit timer/counter**
- ▶ **2 cascade 32-bit timer/counter**
- ▶ **8 TTL level D/I & D/O**
- ▶ **Jumper selectable interrupt source**
- ▶ **Software selectable interrupt source**
- ▶ **4 interrupt source- 2 counter & 2 D/I**
- ▶ **2 on-board internal clock source**
- ▶ **8 external clock source & 8 external gate control signal**
- ▶ **Windows® 98/NT/2000/XP and Labview 6.0/7.0 driver supported**
- ▶ **Complete sample program- VB, VC, BCB, Delphi**

Specifications

Digital Input	
Input channels	16 (clock/gate control)
Input type	TTL level
Input voltage	Low: -0.5 ~ 0.8V
	High: 2.0 ~ 5.2V
Interrupt source	COUT5, COUT7, COUT11, EXT_CLK9 / DI11
Load current	-0.45mA to +70mA
Digital Output	
Output channels	8
Sink Current	0.4V @ +64mA (logic level 0)
Source current	2.4V @ -15mA (logic level 1)
Timer/Counter	
Channels	8 16-bit independent & 2 32-bit cascaded
Type	TTL level
Programmable clock	0.5MHz, 1MHz, 2MHz, 4MHz
Programmable counter mode	12
Max. frequency	10 MHz
Time based	internal / external clock
General environment	
I/O connector type	37-pin D-sub female
Power consumption	+5V/500mA (typical), +5V/600mA (max.)
Operation temperature	0 ~ 60°C
Storage temperature	-20 to 70°C
Humidity	0 to 90% non-condensing
Dimensions	185mm x 110mm

Introduction

The DASP-52010 is a PCI-bus, eight 16-bit two cascaded 32-bit timer/counter card. It supports 16 general purpose digital I/O channels, making it suitable for frequency measurement, event counting, time-delay, and pulse generation applications.

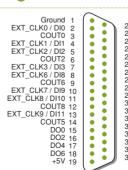**Board Identification- Serial Number on EEPROM**
The DASP stores the serial number of each DASP in the EEPROM before shipping. The PCI scan utility can scan all the DASP and show users the serial number of each DASP, helping the user to easily identify and access each card during hardware configuration and software programming.

Easy to troubleshoot hardware resource- PCI Scan Utility
The PCI scan utility can scan all the DASP products within the system, and can show users all system resources, such as serial numbers, IRQ, and I/O addresses. This lets users clearly see through and immediately know whether all DASPs are working normally, decreasing the time of searching confirmation.

Applications

- Digital I/O control
- Real time clock
- Process event counting
- Pulse generation
- Time-delay generation
- Test automation
- PWM output
- Square wave output
- Pulse width measurement

Ordering Information

DASP-52010	10-channel timer/counter card
Terminal Board	
TB-88037	37-pin D-sub female terminal board
Cable	
CB-89037-2	37-pin D-sub male to male/2M cable
CB-89037-5	37-pin D-sub male to male/5M cable

Pin Assignment

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Ground          1         20  Ground
EXT_CLK0 / DI0  2         21  EXT_GATE0 / DI4
COUT0           3         22  EXT_GATE1 / DI5
EXT_CLK1 / DI1  4         23  COUT1
EXT_CLK2 / DI2  5         24  EXT_GATE2 / DI6
COUT2           6         25  EXT_GATE3 / DI7
EXT_CLK3 / DI3  7         26  COUT3
EXT_CLK6 / DI8  8         27  EXT_GATE6 / DI12
COUT6           9         28  EXT_GATE7 / DI13
EXT_CLK7 / DI9  10        29  COUT7
EXT_CLK8 / DI10 11        30  EXT_GATE8 / DI14
COUT8           12        31  EXT_GATE9 / DI15
EXT_CLK9 / DI11 13        32  COUT9
COUT5           14        33  COUT11
DO0             15        34  DO1
DO2             16        35  DO3
DO4             17        36  DO5
DO6             18        37  DO7
+5V             19
```