

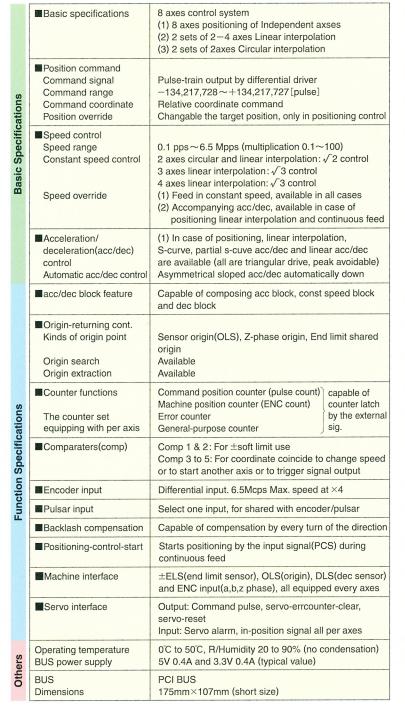
# HPCI-CPD578N

Best use for those equipments; semiconductors/FDP manufactureings, inspections, and for robotics, automatic control equipments.

# **■**Upper compatible of CPD578 (8-axes)

- Master axis controles the slave to follow
- Controllable gantry structured machine
- Acceptable 6.5Mcps Encoder freq.
- Capable of coordinate counter latch by the external signal, usefull for teaching and take in the coordinate count







# <Specific feature of CPD578N>

CPD578N has realized new feature rather than CPD578: the master/slave function works in synchronously each other.

Parallel 2-axes control mode	<b>EX.</b> ①	Slave command pulse sync. with master command pulse
Appointed master/slave area operation	<b>EX.</b> ②	Slave follows master area determined by comparator. Slave synchronously start to move the area and end.
Slave extension mode	<b>EX.</b> ③	The master X and ordinary Z axis are interpolated. The axes U,V,···(subsidiary axis Z) synchronously can be moved with the Z. (up to 13axes available)
Master follow-up mode	<b>EX. 4</b>	The slave's command pulses are synchronizes with master's encoder input.(Slave follow up master's ENC)

Among the 8 axes, the X-axis is referred to as the master axis, and rest of 7 axes are as the slave axis.

Followings are the typical instances.

# 1. The slave runs synchronously with the master (Parallel 2axes)

EX.① Gantry... X-X' (slave Y-axis) drives the double saddles. In case of homing, the mode will be changed to separate mode, and the fine adjustable movement available for the origin point.

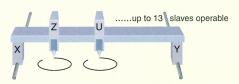
### 2. Appointed master/slave area operation

EX.(2) Synchronous movement in the appointed area...the slave Y starts from the comparator coincident area of the master X



#### 3. Multi-carriages interpolation (Slave extension mode)

EX.3 Gantry-type multiple carriages moves in the same way



# 4. Transfer an object material (OM) from X holder to Y, (Master follow-up mode)

(Master follow-up mode)

EX.4

OM (object material)

Master | Y | Slave | Master | X | Y | Slave | Master | X | Y | Master | X | Y | Master | Maste



# **HPCI-CPD578N**

# **PCI BUS Motor Control**

# **Software Guide**

The following software is attached to the product free of charge.

#### Device driver

Necessary for using the product on Windows PCs. Compatible OS: Windows7, Vista, XP, 2000, NT4.0, 98SE Contact us for any other OS including DOS, INtime, and QNX.

#### Driver function

Provided by a low level input/output function which makes detailed settins and kinds of operations available. Since it is provided by DLL, it is compatible to various development environments of Windows (VC,VB,VC#,BCB etc)

#### Library function

A function for basic operations of motions (origin-returning, positioning, linear interporation, clrcurar interporation etc.)

# Sample program

Sample software to provide explanations on attatched library function.

Sample codes of "Open/Close device", "Origin-returning", "Cont. feed", "Positioning", "Linear interporation", "Circular interporation", are included.

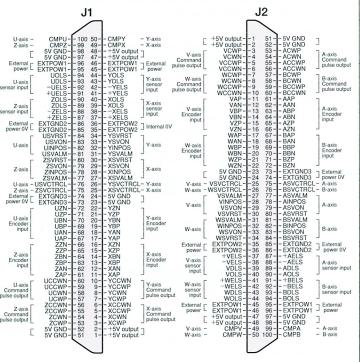
Development language: Microsoft Visual C++, Visual Basic, Visual C# (All attached as project files)

# "Try to move"

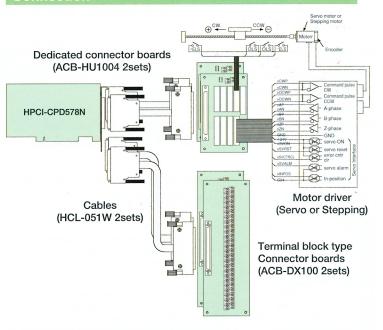
Software for operation checks.(With VC source code) It can be used for checking input/output of sensors and servo I/F, or for studying the functions of the board. Functions:

±continuos feed, ±relative positioning, origin-returning, command coordinate display, machine coordinate display (A/B phase counts), command speed display, input status display, servo-ON output, servoreset output and etc.

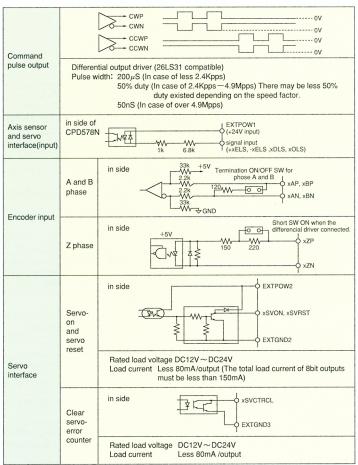
# **Connector Pin assigne**



## Connection



# Input/output circuit





#### Safety Precations

• Read the instruction manuals thoroughly and carefully before using products in this catalog.

Consult with our sales office before using products in this catalog in medical, transportation, combustion, or safety equipments or devices.



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