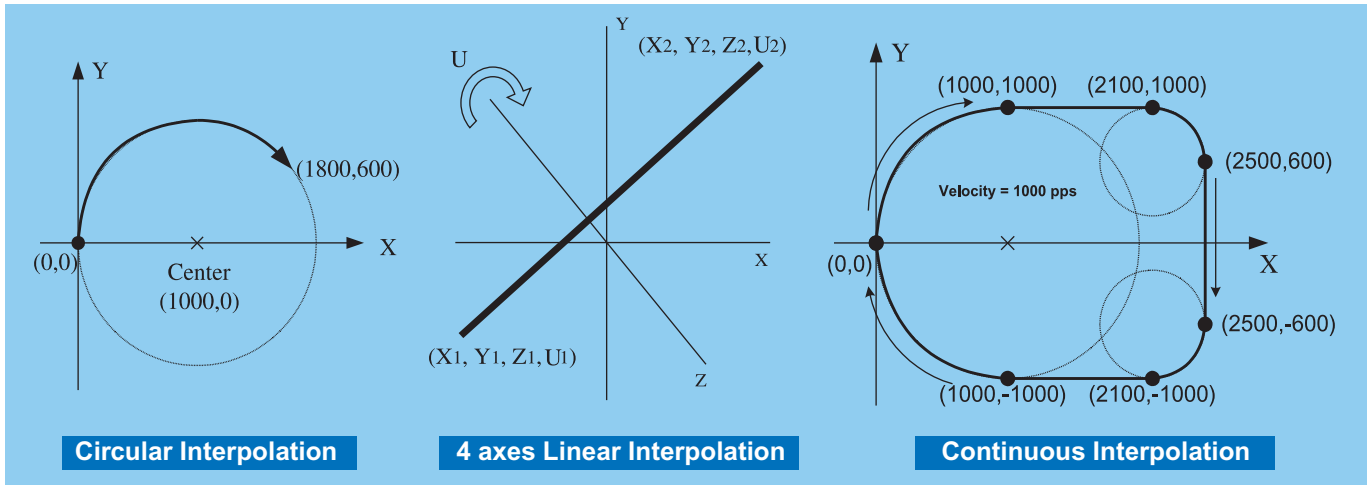


Various Interpolation Modes of PCI-8164



Specifications

Motion

- Number of controllable axes: 4
- Max number of cards in one system: 12
- Up to 6.55 MHz pulse output
- Pulse output is programmable to be: OUT/DIR or CW/CCW
- 28-bit Up/Down counter for encoder feed-back signals
- Position range: (28-bit), -134217728 to +134217728 pulses

Motion Interface I/O Signals

- Position latch input pin: LTC
- Position compare output pin: CMP
- All I/O pins are differential and 2500 VRMS optically isolated
- Incremental encoder signals input pins: EA and EB
- Encoder index signal input: EZ
- Mechanical limit switch signal input pins: ±EL, SD and ORG
- Servomotor interface I/O pins: INP, ALM, ERC
- General DO pin: SVON
- General DI pin: RDY
- Pulser signal input: PA and PB
- Simultaneous Start/Stop Signal I/O Pins: STA and STP

General-Purpose I/O

- 6 TTL level Digital Output

Software Support

- Windows DLL
The software drivers support VC++ /VB/C++ Builder/Delphi programming on Windows 95/98/NT/2000/XP platform with DLL.
- MotionCreator™
MotionCreator™ (VB utility) assists the motion system developer to debug any cabling problem, and solve the difficulty of system configuration before programming.

Termination Board

■ DIN-100M15

Termination Board for General Purpose with 1.5M cable



DIN-100M15

■ DIN-814M

Termination Board for Mitsubishi Servo Driver with 1M Cable



DIN-814M

Ordering Information

■ PCI-8164

Advanced 4-Axis Motion Control Card

Note: The products are shipped with software development kits for DOS, Windows 95/98/NT/2000/XP.

PCI-8164 Pin Assignment of the 100-pin SCSI-type Connector

VPP	1	51	VPP
GND	2	52	GND
OUT1+	3	53	OUT3+
OUT1-	4	54	OUT3-
DIR1+	5	55	DIR3+
DIR1-	6	56	DIR3-
SVON1	7	57	SVON3
ERC1	8	58	ERC3
ALM1	9	59	ALM3
INP1	10	60	INP3
RDY1	11	61	RDY3
GND	12	62	GND
EA1+	13	63	EA3+
EA1-	14	64	EA3-
EB1+	15	65	EB3+
EB1-	16	66	EB3-
EZ1+	17	67	EZ3+
EZ1-	18	68	EZ3-
VPP	19	69	VPP
GND	20	70	GND
OUT2+	21	71	OUT4+
OUT2-	22	72	OUT4-
DIR2+	23	73	DIR4+
DIR2-	24	74	DIR4-
SVON2	25	75	SVON4
ERC2	26	76	ERC4
ALM2	27	77	ALM4
INP2	28	78	INP4
RDY2	29	79	RDY4
GND	30	80	GND
EA2+	31	81	EA4+
EA2-	32	82	EA4-
EB2+	33	83	EB4+
EB2-	34	84	EB4-
EZ2+	35	85	EZ4+
EZ2-	36	86	EZ4-
PEL1	37	87	PEL3
MEL1	38	88	MEL3
CMP1	39	89	CMP3
SD1	40	90	SD3
ORG1	41	91	ORG3
GND	42	92	GND
PEL2	43	93	PEL4
MEL2	44	94	MEL4
GMP2	45	95	GMP4
SD2	46	96	SD4
ORG2	47	97	ORG4
GND	48	98	GND
GND	49	99	E_24V
GND	50	100	E_24V

- 1 Software Solutions
- 2 PXI/CompactPCI Platforms
- 3 PXI-Based Instruments
- 4 PXI/CompactPCI Modules
- 5 PCI DAQ Cards
- 6 PCI DIO Cards
- 7 PC/104-Plus Products
- 8 ISA DAS/DIO Cards
- 9 Wiring Termination Boards
- 10 Motion Control Cards
- 11 Maching Vision Products
- 12 Remote I/O Modules