

Software Support

- Windows 95/98/NT/2000 DLL
- BC3.1 library on DOS

Specifications

General Specifications

- I/O Connector:
 - one 100-pin SCSI-II
 - one 25-pin D-sub female
 - one 9-pin D-sub female
- Operating Temperature: 0 to 50 °C
- Storage Temperature: -20 to 80 °C
- Humidity: 5 to 85%, non-condensing
- Power Consumption:
 - Slot power supply (input):
 - +5 V_{DC}, ±5%, 900 mA max.
 - External power supply (input):
 - +24 V_{DC}, ±5%, 500 mA max.
 - External power supply (output):
 - +5 V_{DC}, ±5%, 500 mA, max.
- Dimensions: 164 mm x 98.4 mm

Pulse Input (Industrial Counter)

- 6 differential input channels
- 32-bit counter for AB-phase, CW/CCW, Pulse/Direction
- 2500 V_{RMS} optical isolation
- Max. counter rate: 3 MHz

Pulse Output (Pulse Generator)

- 6 output channels with differential Drivers
- Pulse command type: CW/CCW, Pulse/Direction, AB-phase
- Max. pulse rate: 3 MHz

Analog Input

- 6 differential/single-ended input channels
- Input range
 - Voltage: ±10 V
 - Current: 0-20 mA
- 12-bit ADC with 1-bit non-linearity
- Input impedance approx.
 - 440 kΩ (Voltage)
 - 120 Ω (Current)
- Sampling rate: 133 kHz multiplexing

Analog Output

- 6 output channels
- Output range: bipolar ±10 V
- 16-bit DAC resolution, 14-bit accuracy guarantee
- Settling time: 2 μs

Digital Input

- 19 input channels
- Input voltage
 - Logical high: 3-24 V
 - Logical low: 0-1.5 V
- Input impedance: 4.7 kΩ @ 0.5 W
- Isolation voltage: 2500 V_{RMS}
- Throughput: 10 kHz (0.1 ms)

Digital Output

- 7 Output channels
- Output type: open collector
- Sink current
 - 100 mA/CH (typical)
 - 268 mA/CH (max.)
 - 500 mA/CH (total)
- Isolation voltage: 2500 V_{RMS}
- Throughput: 10 kHz (0.1 ms)

Timer

- One programmable timer interrupt
- Base clock: 33 MHz by PCI bus
- Timer range: 24-bit

Termination Board

- DIN-100M15**
Termination Board for General Purpose with 1.5M Cable



DIN-100M15

Ordering Information

- PCI-8136**
6-CH Quadrature Encoder and Multi-function I/O Card

Note: Products are shipped with software development kits for DOS, Windows 2000/NT/XP/9x, and MotionCreator.

CN1 Pin Assignment

AGND	1	51	AGND
DAC1	2	52	DAC2
DAC2	3	53	DAC4
DAC3	4	54	DAC6
VCC+5V	5	55	EXGND
EX+24V	6	56	EXGND
EX+24V	7	57	(DI18)ALM
EX+24V	8	58	(DO6)P_RDY
ORG1(DI0)	9	59	(DI1)ORG2
PEL1(DI6)	10	60	(DI8)PEL2
MEL1(DI7)	11	61	(DI9)MEL2
SVON1(DO0)	12	62	(DO1)SVON2
ORG3(DI2)	13	63	(DI3)ORG4
PEL3(DI10)	14	64	(DI12)PEL4
MEL3(DI11)	15	65	(DI13)MEL4
SVON3(DO2)	16	66	(DO3)SVON4
ORG5(DI4)	17	67	(DI5)ORG6
PEL5(DI14)	18	68	(DI16)PEL6
MEL5(DI15)	19	69	(DI17)MEL6
SVON5(DO4)	20	70	(DO5)SVON6
EA1+	21	71	EA2+
EA1-	22	72	EA2-
EB1+	23	73	EB2+
EB1-	24	74	EB2-
EZ1+	25	75	EZ2+
EZ1-	26	76	EZ2-
EA3+	27	77	EA4+
EA3-	28	78	EA4-
EB3+	29	79	EB4+
EB3-	30	80	EB4-
EZ3+	31	81	EZ4+
EZ3-	32	82	EZ4-
EA5+	33	83	EA6+
EA5-	34	84	EA6-
EB5+	35	85	EB6+
EB5-	36	86	EB6-
EZ5+	37	87	EZ6+
EZ5-	38	88	EZ6-
OUT1+	39	89	OUT2+
OUT1-	40	90	OUT2-
DIR1+	41	91	DIR2+
DIR1-	42	92	DIR2-
OUT3+	43	93	OUT4+
OUT3-	44	94	OUT4-
DIR3+	45	95	DIR4+
DIR3-	46	96	DIR4-
OUT5+	47	97	OUT6+
OUT5-	48	98	OUT6-
DIR5+	49	99	DIR6+
DIR5-	50	100	DIR6-

CN3 Pin Assignment

G2SIOCLK/	1	14	G2SIOCLK
G2SCS0	2	15	G2SCS0/
G2S2MD/	3	16	G2S2MD/
G2S2SD/	4	17	G2S2SD/
AGND	5	18	DAC1
DAC2	6	19	DAC2
ADC1-	7	20	ADC1+
ADC2-	8	21	ADC2+
ADC3-	9	22	ADC3+
ADC4-	10	23	ADC4+
ADC5-	11	24	ADC5+
ADC6-	12	25	ADC6+
AGND	13		

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