



Specifications

Pulse output mode	OUT/DIR, CW/CCW, A/B
Pulse output rate	Max. 6.5Mpps
Position range	32 bits
Home return mode	13 types
Velocity profiles	T-curve and S-curve
Interpolation mode	Linear, circular, helical and continuous
Counter for encoder feedback signals	32 bits
Position latch input	LTC x 4
Position compare output	CMP x 2, 1024 points / ch.; CMP x 2
Incremental encoder input	±EA x 4, ±EB x 4
Encoder index signal input	±EZ x 4
Machine interface	PEL x 4, MEL x 4, ORG x 4, SLD x 4
Servo driver interface	ALM x 4, RDY x 4, SVON x 4, INP x 4, ERC x 4, ALMRST x 4
Emergency input	EMG x 1
I/O pin type	Optically isolated with 3750Vrms on all mini-SCSI 68 pin x 2
Isolated digital input	IN x 3, NPN type
Isolated digital output	OUT x 4, NPN type
Number of ring	2
Serial interface	Half duplex RS-485 with transformer isolation
Cable type	CAT5 UTP/STP Ethernet cable
Surge protection	10KV
Transmission speed	2.5Mbps, 5Mbps, 10Mbps and 20Mbps
Data flow control	Automatic
Communication distance	Max. 100M (20Mbps / 32 slave modules)
Bus type	1-lane 2.5Gb/s PCI Express
Power consumption	3.3VDC at 430mA, 12VDC at 55mA typical
Working temperature	0 to 60°C

Features

- PCI Express x1 compliant
- On-board 4-axis motion control with Max. 6.5MHz pulse output rate
- 2 rings of Motionnet® Master
- Max. 128 Motionnet® slave module support
- Linear, circular, helical and continuous interpolation
- High speed position latch function
- Programmable acceleration and deceleration time
- Programmable pulse output and interrupt
- Position compare and trigger output
- Compare output FIFO x 2
- Manual pulse generator
- General purpose isolated I/O: 3 DI and 4 DO
- Hardware IC with unique ID

Ordering Information

PCE-M114-GM	2-Ring Motionnet® Master card
107-T121-GEN	Terminal board for 2-axis
SCB-2544-20A	VHDCI 68 - 2 x mini SCSI 68 pin, 2M

Software Supporting

Windows 2000/XP/7 WDM driver	Support Visual C/C++, C#, Microsoft .NET Framework programming on Windows 2000/XP/7 platform with DLL
Motionnet® utility	MyLink for diagnosis of Motionnet® slave devices

01 Master Card

02 Digital Slave

03 Analog Slave

04 Motion Slave

05 Microstep Driver