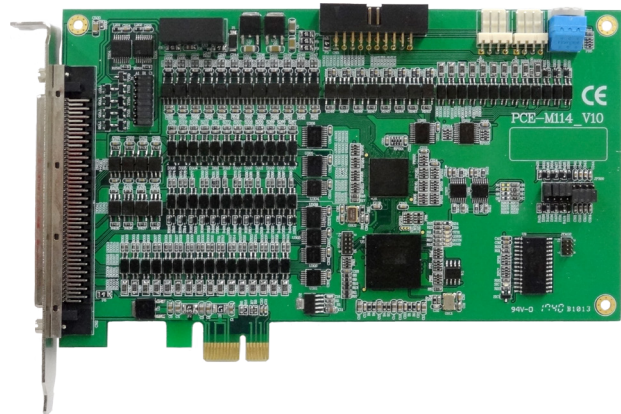


# PCI Express PCE-M114



## 4-Axis Motion Card

### Features

- On-board 4-axis motion control with Max. 6.5MHz pulse output rate
- Linear, circular, helical and continuous interpolation
- High speed position latch function
- Simultaneously start/stop on multiple axes
- Programmable acceleration and deceleration time
- Programmable pulse output and interrupt
- Position compare and trigger output
- High Speed FIFO LATCH x 2
- Compare output FIFO x 2
- Hardware IC with unique ID

### Ordering information

- **PCE-M114**  
4-axis Motion Card w. 2K trigger table
- **PCE-M114A**  
4-axis Motion Card w. 4K trigger table
- **PCE-M114B**  
4-axis Motion Card w. 2D trigger table
- **107-T142-GEN**  
Terminal board for 4-axis
- **107-T160-DUMP**  
Terminal board for 4-axis
- **107-T161-DUM**  
Terminal board for 4-axis
- **107-T162-DUMG**  
Terminal board for 4-axis
- **SCB-166-20A**  
SCSI 100 pin, 2M

### Specifications

#### Motion Control

<b>Pulse output mode</b>	OUT/DIR, CW/CCW, A/B
<b>Pulse output rate</b>	Max. 6.5Mpps
<b>Position range</b>	32 bits
<b>Home return mode</b>	13 types
<b>Velocity profiles</b>	T-curve and S-curve
<b>Interpolation mode</b>	Linear, circular, helical and continuous
<b>Counter for encoder feedback signals</b>	32 bits
<b>Position latch input</b>	LTC x 4, 1024 points / ch. LTC x 4, 2048 points / ch. (A)
<b>Position compare output</b>	CMP x 4, 2048 points / ch. CMP x 4, 4096 points / ch. (A)
<b>Incremental encoder input</b>	±EA x 4, ±EB x 4
<b>Encoder index signal input</b>	±EZ x 4
<b>Machine interface</b>	PEL x 4, MEL x 4, ORG x 4, SLD x 4
<b>Servo driver interface</b>	ALM x 4, RDY x 4, SVON x 4, INP x 4, ERC x 4, ALMRST x 4
<b>Simultaneous start/stop motion input</b>	STA, STP
<b>Emergency input</b>	EMG x 1
<b>I/O pin type</b>	Optically isolated with 3750Vrms on all SCSI 100 pin

#### General

<b>Bus type</b>	1-lane 2.5 Gb/s PCI Express
<b>Power consumption</b>	3.3VDC at 430mA, 12VDC at 55mA typical
<b>Working temperature</b>	0 to 60°C