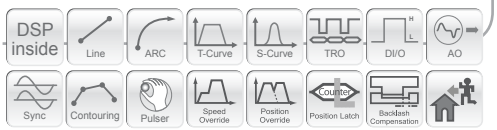
PCI-8366+

DSP-based SSCNET II 6-axis Motion Controller



Features

- **32-bit PCI bus, Rev 2.2, 33 MHz**
- **Servo Interface: SSCNET II protocol**
- **On-board DSP: TI TMS320C6711 200 MHz**
- **Maximum controllable axes: 6 for PCI-8366+**
- **32-bit position command resolution**
- **On-line servo tuning and data monitoring**
- **Easy wiring up to 30 meters for servo drivers connection**
- **2 isolated DI/DO**
- **3 external encoder/linear scale interface**
- **Multiple axes linear interpolation**
- **Any 2 axes circular interpolation**
- **Contour following motion with smoothing function**
- **On-the-fly velocity change**
- **Programmable interrupt sources**
- **Hardware synchronization between multiple cards**
- **Easy-to-use function library**
- **More than 250 thread safe API functions**
- **Sequence motion control for speed profile timing chart between axes**
- **Absolute encoder access**
- **2-CH 16-bit analog output**

Specifications

SSCNET Distributed Motion Control	
Cycle Time	0.888 ms
Number of Controllable Axes	6 axes
Max. Number of Cards in One System	12
Encoder Feedback	3-CH, 32-bit, up/down counter up to 5 MHz
Motion Interface I/O Signals	
External Encoder Signals Input Pin	EA and EB
Encoder Index Signal Input	EZ
Mechanical Limit Seitch and Origin Signal Input Pin	±EL and ORG
General-purpose I/O	
2 channels isolated digital inputs; 2 channal open collector output	
Input Volotage	0 to 24 V
Input Resistance	2.4 KΩ @ 0.5 W
Sink Current	4 mA
Bandwidth	10 kHz
Analog Output (D/A)	
Resolution	16-bit
Output Channel	2 single-ended channels
Output Range	±10 V, bipolar
Setting Time	10 μs
Output Driving	±5 mA

Software Support

- Windows® Platform
  - Available for Windows 7/Vista (32-bit)/XP/2000
  - Recommended programming environments: VB/VC++/ BCB/Delphi
- MotionCreatorPro™

MotionCreatorPro™ assists motion system developers in debugging any cabling problems and resolving complex system configuration before programming

Ordering Information

PCI-8366+
DSP-based 6-axis SSCNET II motion controller

Accessories

For more information on terminal boards & cables, please refer to page 6-31.

Terminal Board

- DIN-68S-01
  Terminal board with 68-pin SCSI-II connector with DIN-rail mounting

Cabling

- ACL-10568-1
  68-pin SCSI-VHDCI cable (mating with AMP-787082-7), 1 M
- MR-J2HBUS M
  Controller to amplifier bus cable, available for 2 M, 5 M

Pin Assignment

A.COM	1	35	DA1
PEL1	2	36	DA2
MEL1	3	37	PEL2
ORG1	4	38	MEL2
PEL3	5	39	ORG2
MEL3	6	40	PEL4
ORG3	7	41	MEL4
PEL5	8	42	ORG4
MEL5	9	43	PEL6
ORG5	10	44	MEL6
IPT_COM	11	45	ORG6
EA1+	12	46	EA2+
EA1-	13	47	EA2-
EB1+	14	48	EB2+
EB1-	15	49	EB2-
EZ1+	16	50	EZ2+
EZ1-	17	51	EZ2-
PEL7	18	52	PEL8
MEL7	19	53	MEL8
ORG7	20	54	ORG8
PEL9	21	55	PEL10
MEL9	22	56	MEL10
ORG9	23	57	ORG10
PEL11	24	58	PEL12
MEL11	25	59	MEL12
ORG11	26	60	ORG12
IPT_COM	27	61	IPT_COM
DO_COM	28	62	D11
EA3+	29	63	D12
EA3-	30	64	EMG
EB3+	31	65	EMG_COM
EB3-	32	66	DO1
EX3+	33	67	DO2
EZ3-	34	68	DO_COM

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