PCI-7035

Simultaneous Sample & Hold Boards - 8 / 16 Ch 14-bit

Extra Low Noise | High Accuracy





DESCRIPTION

Simultaneous sampling on eight or sixteen inputs has been added to the PCI-703, to create the **PCI-703S**. This important function is essential for many applications where it is required that readings are taken at exactly the same time without introducing any time delay errors.

Included with the PCI-703S is our free data acquisition package, WaveView for Windows, which allows the user to start sampling as soon as the board is plugged in.

FEATURES

- 8/16 Channel Simultaneous Sample and Hold Analog Inputs
- I4-bit Resolution
- 2x 14-bit Analog Output Channels
- Fully dynamic programmable (gain/range/channel) analog input system
- 3x 24bit Counters
- Programmable External Triggers
- Windows98/ME/2000/XP OS Support (Linux & NT on request)
- WaveView for Windows Data Acquisition & Logging Software
- Labview, Testpoint and VEE Pro Drivers
- PCI-bus revision 2.2 compliant

Specifications ANALOG INPUT 8 or 16 Differential (14-bit Resolution) Channels: Range: +25V0.5; 1.0; 2.5; 5.0; 10; 25; 50; 100 Gain FIFO Depth: 4096 400 KS/s Max Sampling Rate: Output Low Voltage Max: 0.45V ±1 LSB Relative Accuracy ANALOG OUTPUT Channels: 2 (14-bit Resolution) Range: ± 10V Max Transfer Rate: 400kHz FIFO Depth: 4096 Relative Accuracy: DIGITAL I/O and Multifunction I/O ±1LSB Number of Lines: 8 Digital & 10 Multifunction (TTL) - Interrupt Capability COUNTER TIMERS 3 (1 for A/D, 2 for user or for D/A) Channels: Resolution: 24-bit Clock Source: 20MHz, 100kHz or external OTHER 450 KS/s Maximum Bandwidth: 3.3V or 5V (±5%) 1.3A Typical Power Requirement: Dimensions 186 mm x 98,5 mm

SCS	D	Sul	b 68M
AIGND	35	1	AIGND
ACH15-	36	2	ACH14-
ACH15+	37	3	ACH14+
ACH13-	38	4	ACH12-
ACH13+	39	5	ACH12+
ACH11-	40	6	ACH10-
ACH11+	41	7	ACH10+
ACH9-	42	8	ACH8-
ACH9+	43	9	ACH8+
AIGND	44	10	AIGND
ACH7-	45	11	ACH6-
ACH7+	46	12	ACH6+
ACH5-	47	13	ACH4-
ACH5+	48	14	ACH4+
ACH3-	49	15	ACH2-
ACH3+	50	16	ACH2+
ACH1-	51	17	ACH0-
ACH1+	52	18	ACH0+
DAC1	53	19	DAC0
AOGND	54	20	AOGND
DGND	55	21	DGND
NC	56	22	FREQ_OUT
GPCTR1	57	23	GPCTR0
PFI9		24	PFI8
FI7/STARTSCAN	59	25	PFI6
PFI5	60	26	PFI4
PFI3	61	27	PFI2/CONVERT
PFI1	62	28	PFI0
+5V	63	29	+5V
DGND	64	30	DGND
DIO7	65	31	DIO6
DIO5		32	DIO4
DIO3	67	33	DIO2
DIO1	68	34	D I O0
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Ordering Information

PCI-703S-16A

Supplied with EDR Enhanced Software				
PCI-703S-8	8 Channel Simultaneous Sample & Hold			
PCI-703S-8A	8 Channel Simultaneous Sample & Hold with 2x D/A			
PCI-703S-16	16 Channel Simultaneous Sample & Hold			

16 Channel Simultaneous Sample & Hold with 2x D/A

Optional Accessories: PCI-703-16/16A

OPTION 1

ADPT-6868SCD SCSI-II 68(F) Cent & SCSI-II 68(F) DSub to 69way Screw T. Adpt						
SCSI-D68M/F-S 68 SCSI-II DSub (M) to (F) Screened Cable						
OPTION 2:						
ADPT-3740	DB37 (M) & IDC40 (M) to 41way Screw Terminal Adaptor					
Y-Cable4	68 SCSI-II DSub (F) to (2x) DB37 (F) Screened Cable					

Optional Accessories Diagram

SCSI-D68M/F Cable		ADPT-6868SCD SCSI-II 68 (F) Centronics & SCSI-II 68 (F) DSub to 69way Scr. Term. Adaptor	IDC10 Cable	(x4) OUTPI ADPT-910 PC52-2	JT DB9 (F) & IDC10 (M) to 11way Screw Terminal Adaptor 2ch Carrier Board
- Tailog		ADPT-3740 DB37 (M) & IDC40 (M) to 41way Screw Terminal Adaptor	IDC10 Cable	(x4) INPUT ADPT-910 PC52-4	DB9 (F) & IDC10 (M) to 11way Screw Terminal Adaptor 4ch Carrier Board
	Analog	PC-52A5* (2x) 8ch; (4x) 4ch Analog I/P Connectors	IDC 20 Cable	(x2) INPUT ADPT-20 PC52-8	IDC20 (M) to 21way Screw Terminal Adaptor 8ch Carrier Board
Y-Cable4		PC-43A4 8 Independent Digital I/O Connectors Digital Multi-function Control I/O Screw Terminals	IDC10 Cable	ADPT-910 PC-37D	8ch Solid State Opto-22 Relay
	Digital I/O	ADPT-3740 DB37 (M) & IDC40 (M) to 41way Screw Terminal Adaptor		 PC-38G PC-38H PC-38V PC-43E PC-51-8 	8ch Electro Mechanical Relay 8ch Reed Relay 8ch Digital I/O Driver 8ch Opto-Isolated Inputs 8ch Carrier Board for (*x) Opto-22 Digital I/O Modules