PC/104 I/O & Power Modules

PCM-3718H/HG/HO

100 kS/s, 12-bit, 16-Ch PC/104 Multi-function Modules

Specifications

Analog Input		
Channels	16 single-ended / 8 differential	
Resolution	12 bits	
Max. Sampling Rate	100 KHz* (DMA transfer), *80 kHz on P4-based (or better)	
Input Impedance	10 MΩ	
Input Range		
PCM-3718H and PCM-3718HO	Bipolar:	±10, ±5, ±2.5, ±1.25, ±0.625
	Unipolar:	0 ~ 10, 0 ~ 5, 0 ~ 2.5, 0 ~ 1.25
PCM-3718HG	Bipolar:	±10, ±5, ±1, ±0.5, ±0.1, ±0.05, ±0.01, ±0.005
	Unipolar:	0 ~ 10, 0 ~ 1, 0 ~ 0.1, 0 ~ 0.01
Analog Output (PCM-3718HO only)		
Channels	1 (12 bits)	
Output Rate	Static update	
Output Range	Internal Reference	Unipolar (V): 0 ~ 5, 0 ~ 10
	External Reference (V)	0 ~10, 0 ~ -10
Output Impedance	0.1 W max.	
Digital Input/Output		
Channels	16, 5V/TTL	
General		
I/O Connectors	2 x 20-pin box header	
Power Consumption	Typical: 5 V @ 180 mA; Max.: 5 V @ 400 mA	
Operating Temperature	0 ~ 60° C (32 ~ 140° F)	
Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
Dimensions (L x W)	96 x 90 mm (3.8" x 3.5")	

Ordering Information

P/N	Description
PCM-3718H-CE	100 kS/s, 12-bit Multi. PC/104 Module
PCM-3718HG-CE	100 kS/s, 12-bit High-gain Multi. PC/104 Module
PCM-3718HO-BE	100 kS/s, 12-bit Multi. PC/104 Module w/AO

PCM-3724

48-Ch Digital I/O PC/104 Module

Vertrieb durch AMC
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Specifications

Digital Input/Output	
Channels	48 (bi-directional)
Compatibility	5 V/TTL
Input Voltage	Logic 0: 0.8 V max. @ -1 μA Logic 1: 2.0 V min. @ 1 μA
Output Voltage	Logic 0: 0.4 V max. @ 35 mA max. Logic 1: 2.0 V min. @ -35 mA max
Interrupt Capable Ch.	2
General	
Bus Type	PC/104
I/O Connectors	2 x 50-pin box header
Dimensions (L x H)	96 x 90 mm (3.8" x 3.5")
Power Consumption	5 V @ 90 mA
Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
Storage Humidity	0 ~90% RH, non-condensing

Ordering Information

P/N	Description
PCM-3724-BE	PC/104 48-bit Digital I/O Card

PCM-3753I

96-Ch Digital I/O PCI-104 Module

Specifications

Digital Input/Output	
Channels	96 (bi-directional)
Compatibility	5 V/TTL
Input Voltage	Logic 0: 0.8 V max. Logic 1: 2.0 V min.
Output Voltage	Logic 0: 0.4 V max. Logic 1: 2.4 V min.
Output Capability	Sink: 0.4 V @ 24 mA Source: 2.4 V @ 15 mA
General	
I/O Connectors	4 x IDC 50-pin
Operating Temperature	-20 ~ 70° C
Storage Temperature	-50 ~ 120° C
Dimensions (L x W)	96 x 90 mm (3.8" x 3.5")

Ordering Information

P/N	Description
PCM-3753I-AE	96-Ch Digital I/O PCI-104 Module

PCM-3761I

8-Ch Relay and 8-Ch Isolated Digital Input PCI-104 Module

Specifications

Isolated Digital Input	
Channels	8
Input Voltage	Logic 0: 3 V max., Logic 1: 5 V min., 30 V max.
Input Current	2.5 mA @ 5 V, 15 mA @ 30 V
Input Resistance	2 kΩ 0.5 W
Isolation Protection	2,500 V_{DC}
Overvoltage Protection	70 V_{DC}
Interrupt Capable Ch.	8
Opto-isolator Response Time	25 μs
Relay Output	
Channels	8
Relay Type	DPDT, Form C
Contact Rating	0.25 A @ 250 V_{AC}, 2 A @ 30 V_{DC}
Operate/Release Time	typ. 3 / 2 ms, max. 5 / 4 ms
Life Span	5 x 10^7 cycles typ.: 10 mA @ 12 V 2 x 10^5 cycles typ.: 2000 mA @ 30 V
Resistance Contact	50 mΩ
Insulation	1 GΩ min. (at 500 V_{DC})
General	
I/O Connectors	1 x IDC-50 pin, 1 x IDC-20 pin
Operating Temperature	0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
Storage Temperature	-20 ~ 70° C (-4 ~ 158° F)
Dimensions (L x W)	96 x 90 mm (3.8" x 3.5")

Ordering Information

P/N	Description
PCM-3761I-AE	8-Ch Relay/Isolated Digital Input PCI-104 Module

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