

# 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 M $\Omega$
Input Range	
PCM-3718H and PCM-3718HO	Bipolar: $\pm 10, \pm 5, \pm 2.5, \pm 1.25, \pm 0.625$ Unipolar: 0 ~ 10, 0 ~ 5, 0 ~ 2.5, 0 ~ 1.25
PCM-3718HG	Bipolar: $\pm 10, \pm 5, \pm 1, \pm 0.5, \pm 0.1, \pm 0.05, \pm 0.01, \pm 0.005$ 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



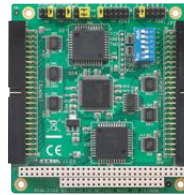
## PCM-3753I 96-Ch Digital I/O PCI-104 Module

### 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-3724 48-Ch Digital I/O PC/104 Module

### Specifications

Digital Input/Output	
Channels	48 (bi-directional)
Compatibility	5 V/TTL
Input Voltage	Logic 0: 0.8 V max. @ -1 $\mu$ A Logic 1: 2.0 V min. @ 1 $\mu$ A
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

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## 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 k $\Omega$ 0.5 W
Isolation Protection	2,500 V <sub>DC</sub>
Overvoltage Protection	70 V <sub>DC</sub>
Interrupt Capable Ch.	8
Opto-isolator Response Time	25 $\mu$ s
Relay Output	
Channels	8
Relay Type	DPDT, Form C
Contact Rating	0.25 A @ 250 V <sub>AC</sub> , 2 A @ 30 V <sub>DC</sub>
Operate/Release Time	typ. 3 / 2 ms, max. 5 / 4 ms
Life Span	5 x 10 <sup>7</sup> cycles typ.: 10 mA @ 12 V 2 x 10 <sup>6</sup> cycles typ.: 2000 mA @ 30 V
Resistance Contact	50 m $\Omega$
Insulation	1 G $\Omega$ min. (at 500 V <sub>DC</sub> )
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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