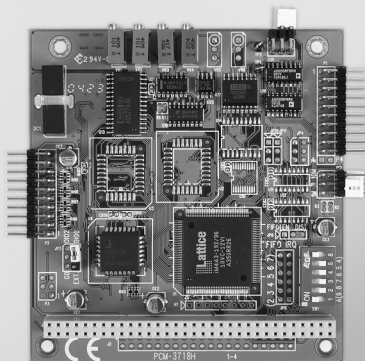


# PCM-3718H/HG/HO

## PCM-3724

100 kS/s, 12-bit, 16-ch  
Multifunction PC/104  
Module

48-ch Digital I/O  
PC/104 Module



PCM-3718H/HG/HO



FCC CE

## 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 upper) system
- Input Impedance: 10 M $\Omega$
- Sampling Modes: Software, pacer or external
- Input Range:

|                          |          |                                                                         |
|--------------------------|----------|-------------------------------------------------------------------------|
| PCM-3718H and PCM-3718HO | Bipolar  | $\pm 10, \pm 5, \pm 2.5, \pm 1.25, \pm 0.625$                           |
|                          | Unipolar | $0 \sim 10, 0 \sim 5, 0 \sim 2.5, 0 \sim 1.25$                          |
| 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 | $0 \sim 10, 0 \sim 1, 0 \sim 0.1, 0 \sim 0.01$                          |

### Analog Output (PCM-3718HO only)

- Channels: 1 (12 bits)
- Output Range:

|                        |              |                         |
|------------------------|--------------|-------------------------|
| Internal Reference     | Unipolar (V) | $0 \sim 5, 0 \sim 10$   |
| External Reference (V) |              | $0 \sim 10, 0 \sim -10$ |

- Slew Rate: 10 V/ $\mu$ s
- Output Impedance: 0.1 W max.

### Digital Input/Output

- Channels: 16, 5V/TTL
- Input Voltage: Logic 0: 0.8 V max.  
Logic 1: 2.0 V min.
- Output Voltage: Logic 0: 0.33 V max. @ 6 mA  
Logic 1: 3.84 V min. @ 6 mA

### General

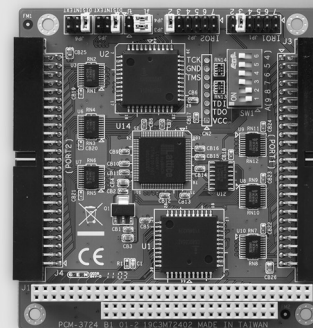
- Bus Type: PC/104
- I/O Connectors: 2 x 20-pin box header
- Dimensions (L x H): 96 x 90 mm (3.8" x 3.5")  
Typical: 5 V @ 180 mA  
Max.: 5 V @ 400 mA
- Power Consumption: 0 ~ 60° C (32 ~ 140° F)  
-40 ~ 85° C (-40 ~ 185° F)
- Operating Temperature: -40 ~ 85° C (-40 ~ 185° F)
- Storage Temperature: -40 ~ 85° C (-40 ~ 185° F)

## Ordering Information

- PCM-3718H: 100 kS/s, 12-bit Multi. PC/104 Module
- PCM-3718HG: 100 kS/s, 12-bit High-gain Multi. PC/104 Module
- PCM-3718HO: 100 kS/s, 12-bit Multi. PC/104 Module w/AO

### Accessories

- ADAM-3920: 20-pin DIN-rail Flat Cable Wiring Board
- PCL-10120-1: 20-pin Flat Cable, 1 m
- PCL-10120-2: 20-pin Flat Cable, 2 m



PCM-3724



FCC CE

## Features

- 48 TTL digital I/O lines
- Output status read-back
- Channels simulate 8255 PPI mode 0
- Interrupt triggering, rising/falling edge

## Specifications

### Digital Input

- Channels: 48 (shared with output)
- Compatibility: 5 V/TTL
- Input Voltage: Logic 0: 0.8 V max. @ -1  $\mu$ A  
Logic 1: 2.0 V min. @ 1  $\mu$ A
- Interrupt Capable Ch.: 2

### Digital Output

- Channels: 48 (shared with input)
- Compatibility: 5 V/TTL
- Output Voltage: Logic 0: 0.4 V max. @ 35 mA max.  
Logic 1: 2.0 V min. @ -35 mA max.

### 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

- PCM-3724: 48-ch Digital I/O PC/104 Module w/ 50-pin Cable

### Accessories

- ADAM-3950: 50-pin DIN-rail Flat Cable Wiring Board
- PCLD-782B: 24-ch IDI Board w/ 20-pin & 50-pin Flat Cables
- PCLD-785B: 24-ch Relay Board w/ 20-pin & 50-pin Flat Cables
- PCL-10150-1.2: 50-pin Flat Cable, 1.2 m