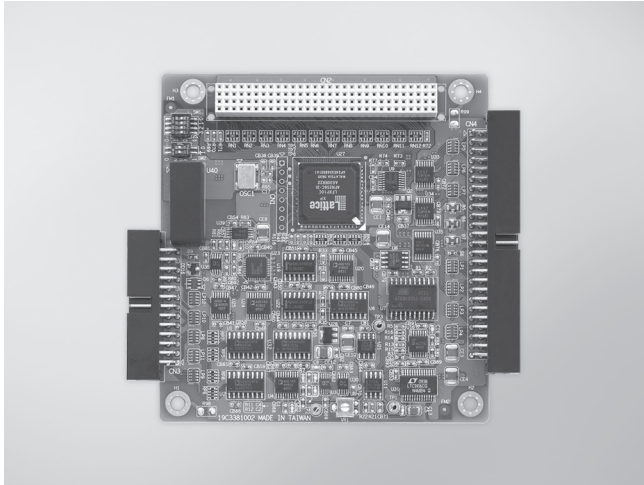


# PCM-3810I

# PCM-3813I

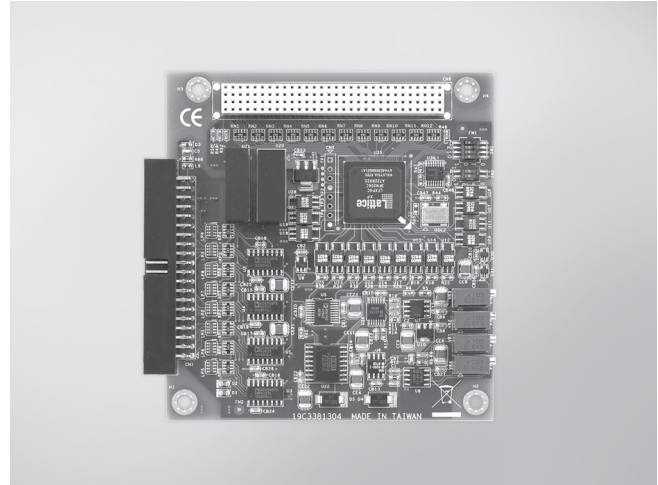
250 kS/s, 12-bit, 16-ch  
Multifunction PCI-104 Module

100 kS/s, 12-bit, 32-ch  
Isolated Analog Input PCI-104 Module



PCM-3810I

FCC CE RoHS



PCM-3813I

FCC CE RoHS

## Specifications

### Analog Input

- Channels: 16 single-ended or 8 differential or combination
- Resolution: 12 bits
- Max. Sampling Rate: 250 kS/s
- Ring Buffer Size: 4,096 samples
- Input Range and Gain List

Gain	0.5	1	2	4	8
Unipolar	N/A	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
Bipolar	±10	±5	±2.5	±1.25	±0.625

- Input Protection: 30 Vp-p
- Sampling Mode: Polling, pacer, double-clock, or external clock
- Trigger Mode: Pre-trigger, post-trigger, delay-trigger, about-trigger

### Analog Output

- Channels: 2
- Output Range: Internal Reference (V): 0 ~ 5, 0 ~ 10, ±5, ±10  
External Reference: 0 ~ +x V @ +x V (-10 ≤ x ≤ 10)  
-x ~ +x V @ +x V (-10 ≤ x ≤ 10)
- Resolution: 12 bits
- Output Rate: 250 kS/s
- Ring Buffer Size: 4,096 samples
- Slew Rate: 20 V/μs
- Operation Mode: Software polling, continuous out

### Digital Input/Output

- Channels: 16
- Compatibility: 5V/TTL

### Counter/Timer

- Channels: 3 (independent)
- Resolution: 24 bits
- Compatibility: 5 V/TTL
- Max. Input Frequency: 10 MHz
- Counter Modes: 12 (programmable)
- Interrupt Capable Ch.: 3
- PWM Channels: 3

### General

- Bus Type: PCI-104
- I/O Connectors: 1 x 26-pin, 1 x 50-pin box header
- Dimensions (L x H): 96 x 90 mm (3.8" x 3.5")
- Operating Temperature: 0 ~ 60°C (32 ~ 140°F)
- Storage Temperature: -20 ~ 70°C (-4 ~ 158°F)

## Ordering Information

- PCM-3810I: 250 kS/s, 12-bit Multi. PCI-104 Module

### Accessories

- PCL-10150-1.2E: 50-pin Flat Cable, 1.2 m
- ADAM-3950: 50-pin DIN-rail Flat Cable Wiring Board

## Features

- Compact size with robust design
- 32 single-ended or 16 differential analog inputs
- Programmable gain for each input channel
- Automatic channel/ gain/ SD scanning
- Onboard ring buffer (1,024 samples)
- Isolation protection (2,500 V<sub>DC</sub>)

## Specifications

### Analog Input

- Channels: 32 single-ended or 16 differential or combination
- Resolution: 12 bits
- Max. Sampling Rate: 100 kS/s
- Ring Buffer Size: 1,024 samples
- Input Range and Gain List

Gain	0.5	1	2	4	8
Unipolar	N/A	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
Bipolar	±10	±5	±2.5	±1.25	±0.625

- Input Protect: 30 Vp-p
- Input Impedance: 100 MΩ/10pF (off); 100 MΩ/100pF (on)
- Sampling Mode: Software polling, onboard programmable pacer, or external TTL trigger

### General

- Bus Type: PCI-104
- I/O Connectors: 1 x 40-pin box header
- Dimensions (L x H): 96 x 90 mm (3.8" x 3.5")
- Operating Temperature: 0 ~ 60°C (32 ~ 140°F)
- Storage Temperature: -20 ~ 70°C (-4 ~ 158°F)

## Ordering Information

- PCM-3813I: 100 kS/s, 12-bit Isolated AI PCI-104 Module

### Accessories

- PCL-10141-0.2E: IDE#2 40-pin to DB37(F) Flat CABLE, 0.2 m
- PCL-10137-1E: DB37 Cable, 1 m
- PCL-10137-2E: DB37 Cable, 2 m
- PCL-10137-3E: DB37 Cable, 3 m
- ADAM-3937: DB37 DIN-rail Wiring Board



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