

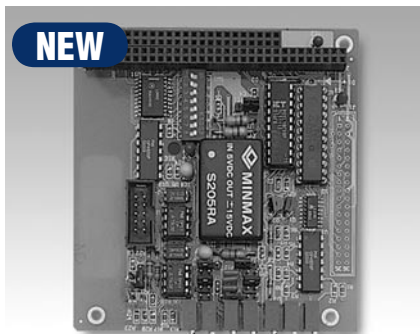
PCM-3712

PCM-3718H/HG/HO

PCM-3724

2-ch. Analog Output Module
12-bit Multifunction Module
with Programmable Gain

48-ch Digital I/O Module



PCM-3712



Features

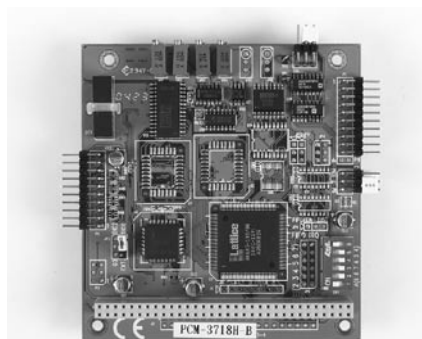
- 2 channels analog output module
- 0 to 5 V, 0 to 10 V, -2.5 V to +2.5 V, -5 V to +5 V, -10 V to +10 V, or 4 to 20 mA output range
- 12-bit resolution

Specifications

- Analog Output Channels** 2
- Voltage Range Unipolar** 0 to 5 V, 0 to 10 V
- Bipolar** ± 2.5 V, ± 5 V, ± 10 V
- Current Range** 4 ~ 20 mA
- Output Current Range** ± 5 mA
- Impedance** 0.1 max./0.02 typ.
- Resolution** 12-bit
- Nonlinearity** ± 1 LSB
- Differential Nonlinearity** $\pm 1/2$ LSB
- System Accuracy** $\pm 0.025\%$ FSR (Voltage)
 $\pm 0.05\%$ FSR (Current)
- Dynamic Performance** 5 V step: 16 μ s
0.3V/ μ s typ. (Voltage)
1.2mA/ μ s (Current)
- Settling Time to 1/2 LSB** 10 V step: 33 μ s
- Slew Rate** 0.3 V/ μ s typ. (Voltage)
1.2 mA/ μ s (Current)
- D/A Converter Single Channel** 33 kHz bit resolution

Ordering Information

- PCM-3712** 2-channel analog output module (18 cm Flat Cable 10-pin to DB9 (F) included)
- ADAM-3909** DB9 cable wiring for DIN-rail mounting



PCM-3718H/HG



Features

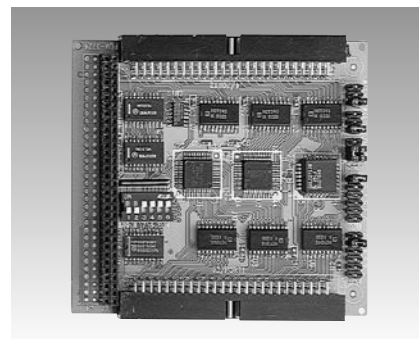
- 16 single-ended or 8 differential analog inputs
- 12-bit A/D converter, up to 100 KHz sampling rate with DMA transfer
- Two 8-bit digital input/output TTL level channels
- One 12-bit Analog output channel (PCM-3718HO only)

Specifications

- Analog Input**
 - Channels** 16 single-ended or 8 differential inputs
12 bits
 - Resolution** 12-bit
- Analog Output**
 - Channel** One 12-bit
 - Output Range** 0 ~ +5V or 0 ~ +10V with int. reference
0 ~ +10V or 0 ~ -10V with ext. reference
Bipolar: ± 10 , ± 5 , ± 1 , ± 0.5 , ± 0.1 , ± 0.05 , ± 0.01 , ± 0.005
Unipolar (PCM-3718HG): 0 ~ 10, 0 ~ 1, 0 ~, 0 ~ 0.01
- Input Range** 0 ~ 1, 0 ~, 0 ~ 0.01
- Digital Input/Output**
 - Channels** Two 8-bit TTL-level Digital I/O channels
 - Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.
 - Output Voltage** Logic 0: 0.33 V max. @ 6 mA (sink)
Logic 1: 3.84 V min. @ 6 mA (source)
 - Power Requirements** +5 V, $\pm 5\%$ tolerance on power supply
 - Temperature** Operating: 0 ~ 60° C (32 ~ 140° F)
Storage: -40 ~ 85° C (-40 ~ 185° F)

Ordering Information

- PCM-3718H** 12-bit multifunction module with programmable gain (cable not included)
- PCM-3718HG** PCM-3718H w/high gain
- PCM-3718HO** PCM-3718H w/AO
- ADAM-3920** 20-pin flat cable wiring terminal for DIN-Rail mounting
- PCLD-780** Screw-terminal board for 20-pin flat cable
- PCL-10120-1** 20-pin flat cable, 1 m
- PCL-10120-2** 20-pin flat cable, 2 m



PCM-3724



Features

- Output status read back
- Channels simulate 8255 PPI mode 0
- Interrupt triggering, rising/falling edge

Specifications

- Digital I/O**
 - Channels** 48 digital I/O channels
 - Throughput** 300 kbps typical
400 kbps max.
 - Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.
 - Output Voltage** Logic 0: 0.5 V max. @ 24 mA (sink)
Logic 1: 2.0 V min. @ 15 mA (source)
 - Power Requirements** +5 V, $\pm 5\%$ tolerance on power supply
 - Size/Weight** 96 x 90 mm (3.8" x 3.5"), 0.084 kg (0.185 lb)
 - Temperature** Operating: 0 ~ 60° C (32 ~ 140° F)
Storage: -40 ~ 85° C (-40 ~ 185° F)
 - Operating Humidity** 0 ~ 90% relative humidity, non-condensing

Ordering Information

- PCM-3724** 48-channel digital I/O module (cable not included)
- ADAM-3950** 50-pin flat cable wiring terminal for DIN-Rail mounting
- PCLD-785B** 24-channel relay output board
- PCLD-782B** 24-channel opto-isolated digital input board
- PCL-10150-1.2** 50-pin flat cable, 1.2 m