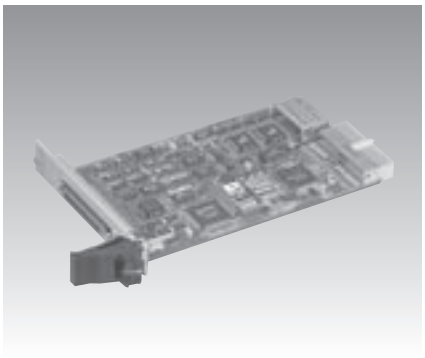
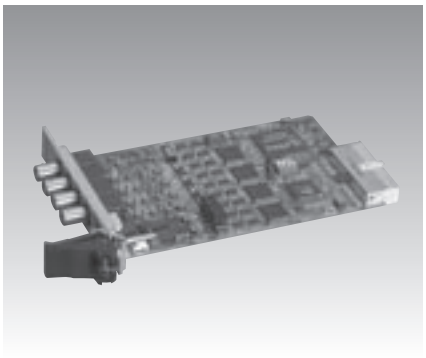
MIC-3716
MIC-3714
MIC-3723/3723R

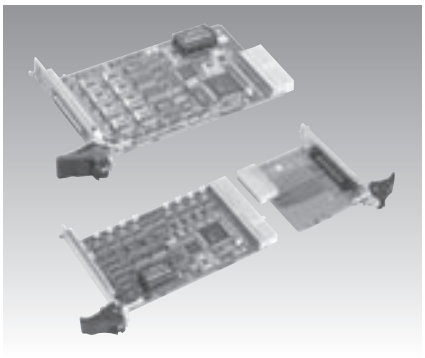
250 kS/s, 16-bit, 16-ch High-resolution Multifunction Cards
30 MS/s Simultaneous 4-ch Analog Input Card
16-bit,8-ch Non-isolated Analog Output Cards



MIC-3716/3



MIC-3714/3



MIC-3723R/3 MIC-3723/3

Specifications

Analog Input

- **Channels** 16 single-ended, 8 differential, or combination
- **Resolution** 16 bits
- **Max. Sampling Rate** 250 kS/s
- **FIFO Size** 1024 samples/ch
- **Overvoltage Protection** 30 Vp-p
- **Input Impedance** 100 MΩ/10 pF (Off); 100 MΩ/100 pF (On)
- **Sampling Modes** Software, pacer, or external
- **Input Range**

Bipolar	±10	±5	±2.5	±1.25	±0.625
Unipolar	-	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
Accuracy (% of FSR ±1LSB)	0.15	0.03	0.03	0.05	0.1

Analog Output

- **Channels** 2
- **Resolution** 16 bits
- **Output Rate** Static update
- **Output Range**

Internal Reference	Bipolar	±5, ±10
	Unipolar	0 ~ 5, 0 ~ 10
External Reference		0 ~ +x V @ +x v (-10 ≤ x ≤ 10) -x ~ +x V @ +x v (-10 ≤ x ≤ 10)

- **Slew Rate** 20 V/μs
- **Driving Capability** ±20 mA
- **Output Impedance** 0.1 Ω max.
- **Operation Mode** Single output
- **Accuracy** Relative: ±1LSB

Digital Input/Output

- **Channels** 16, 5V/TTL
- **Input Voltage** Logic 0: 0.4 V max.
Logic 1: 2.4 V min.
- **Output Voltage** Logic 0: 0.4 V max.
Logic 1: 2.7 V min.
- **Output Capability** Sink: 0.4 V max. @ +8 mA
Source: 2.4 V min. @ -0.4 mA

Counter/Timer

- **Channels** 3

Applications

- **Compatibility** 5 V/TTL
- **Resolution** 16 bits
- **Max. Input Frequency** 1 MHz
- **Reference Clock** Internal 10 MHz
External Clock Frequency 10 MHz
External Voltage Range TTL (Low: 0.8, High: 2 V)

General

- **PICMG Compliance** CompactPCI V2.0, R 2.1 Hot-Swap V2.1, R 2.0
- **Bus Type** CompactPCI
- **I/O Connector Type** 68-pin SCSI-II female
- **Dimensions** 160 x 100 mm (6.9" x 3.9") with 3U/6U Bracket
- **Power Consumption** Typical: +5 V @ 850 mA, +12 V @ 600 mA
Max.: +5 V @ 1 A, +12 V @ 700 m A
- **Certifications** CE

Ordering Information

- **MIC-3716/3** 3U, 250 kS/s, 16-bit, 16-ch High-Resolution Multifunction Card
- **PCLD-8710** Industrial Wiring Terminal Board with CJC circuit for DIN-rail Mounting. (cable not included)
- **PCL-10168** 68-pin SCSI-II cable with male connectors on both ends and special shielding for noise reduction, 1 and 2 m
- **ADAM-3968** 68-pin SCSI-II Wiring Terminal Board for DIN-rail Mounting

Specifications

Analog Input

- **Channels** 4 single-ended channels
- **Resolution** 12 bits
- **Max. Sampling Rate** 30 MS/s (Only in FIFO 32k)
- **FIFO Size** 32,768 samples/ch
- **Overvoltage Protection** 30 Vp-p
- **Input Impedance** 50 Ω/1 MΩ/jumper selectable, 100 pF
- **Sampling Modes** Software, pacer, post-trigger, pre-trigger, delay-trigger, about-trigger
- **Input Range** **(V, software programmable)**

General

- **Bus Type** CompactPCI
- **I/O Connectors** 4 x BNC connector (for AI)
1 x PS/2 connector (for ext. colock and trigger)
- **Dimensions (L x H)** 160 x 100 mm (6.3" x 3.9") with 3U/6U bracket
- **Power Consumption** Typical: +3.3 V @ 550 mA , +5 V @ 150 mA , +12 V @ 600 mA
Max.: +3.3 V @ 850 mA, +5 V @ 200 mA, +12 V @ 700 mA
- **Operating Temperature** 0 ~ 70° C (32~158° F)
- **Storing Temperature** -20 ~ 85° C (-4~185° F)
- **Storing Humidity** 5~95% RH, non-condensing (refer to IEC 68-2-3)
- **Certifications** CE and FCC certified

Ordering Information

- **MIC-3714/3** 3U, 30 MS/s Simultaneous 4-ch Analog Input Card
- **ADAM-3909** DB-9 Wiring Terminal for DIN-rail Mounting
- **PCL-10901-1** PS2 to DB-9 wiring cable, 1 m
- **PCL-10901-3** PS2 to DB-9 wiring cable, 3 m
- **PCL-1010B-1** BNC to BNC wiring cable, 1 m

Specifications

Analog Output

- **Channels** 8
- **Resolution** 16 bits
- **Output Rate** Static update
- **Output Range** **(V, software programmable)**

Internal Reference	Unipolar	±10 V
	Current Loop	0 ~ 20 mA, 4 ~ 20 mA

- **Slew Rate** 20 V/μs
- **Driving Capability** 5mA
- **Output Impedance** 0.1 Ω max.
- **Operation Modes** Single output, synchronized output

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: 0.5 V max. @ 24 mA
Logic 1: 2.4 V min. @ -15 mA
- **Output Capability** Sink: 0.5 V max. @ 24 mA
Source: 2.4 V min. @ -15 mA

General

- **PICMG Compliance** CompactPCI V2.0, R 2.1 Hot-Swap V2.1, R 2.0
- **Bus Type** CompactPCI
- **I/O Connector Type** 68-pin SCSI-II female
- **Dimensions** 160 x 100 mm (6.9" x 3.9") with 3U/6U Bracket
- **Power Consumption** Typical: 5 V @ 850, 12 V @ 600 mA
- **Certifications** CE

Ordering Information

- **MIC-3723/3** 3U CompactPCI 16-bit, 8-ch non-isolated analog output card
- **MIC-3723R/3** 3U CompactPCI 16-bit, 8-ch non-isolated analog output card with Rear I/O support
- **PCL-10168-1** 68-pin SCSI-II cable with male connectors on both
- **PCL-10168-2** ends and special shielding for noise reduction, 1 and 2 m
- **ADAM-3968** 68-pin SCSI-II Wiring Terminal Board for DIN-rail mounting