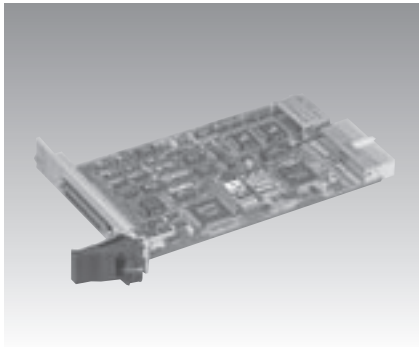


# MIC-3716

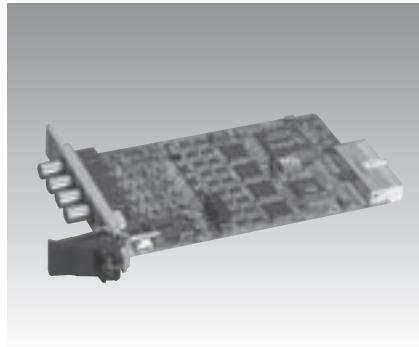
# MIC-3714

# MIC-3723/3723R

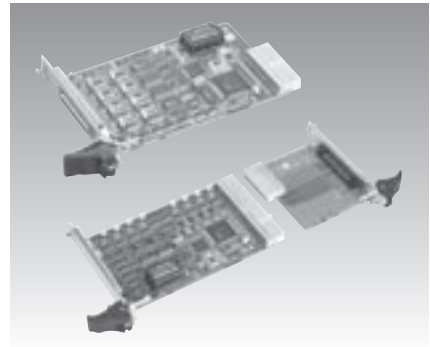
250 kS/s, 16-bit, 16-ch  
High-resolution Multifunction Cards  
30 MS/s Simultaneous 4-ch Analog  
Input Card  
16-bit, 8-ch Non-isolated Analog  
Output Cards



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 M $\Omega$ /10 pF (Off); 100 M $\Omega$ /100 pF (On)
- Sampling Modes: Software, pacer, or external
- Input Range:  $\pm 10$ ,  $\pm 5$ ,  $\pm 2.5$ ,  $\pm 1.25$ ,  $\pm 0.625$

	$\pm 10$	$\pm 5$	$\pm 2.5$	$\pm 1.25$	$\pm 0.625$
Unipolar	-	0 - 10	0 - 5	0 - 2.5	0 - 1.25
Accuracy (% of FSR $\pm 1$ LSB)	0.15	0.03	0.03	0.05	0.1

### Analog Output

- Channels: 2
- Resolution: 16 bits
- Output Rate: Static update
- Output Range:  $\pm 5$ ,  $\pm 10$

Internal Reference	Bipolar Unipolar	$\pm 5$ , $\pm 10$
External Reference		0 - +x V @ +x V (-10 $\leq$ x $\leq$ 10) -x - +x V @ +x V (-10 $\leq$ x $\leq$ 10)

- Slew Rate: 20 V/ $\mu$ s
- Driving Capability:  $\pm 20$  mA
- Output Impedance: 0.1  $\Omega$  max.
- Operation Mode: Single output
- Accuracy: Relative:  $\pm 1$ LSB

### 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 mA
- Certifications: CE

## Ordering Information

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

### Power Consumption

- Typical: +3.3 V @ 550 mA, +5 V @ 200 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 DB-9 Wiring Terminal for DIN-rail Mounting PS2 to DB-9 wiring cable, 1 m
- ADAM-3909: PS2 to DB-9 wiring cable, 3 m
- PCL-10901-1: BNC to BNC wiring cable, 1 m
- PCL-10901-3: BNC to BNC 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 Current Loop	$\pm 10$ V
		0 ~ 20 mA, 4 ~ 20 mA

- Slew Rate: 20 V/ $\mu$ s
- Driving Capability: 5mA
- Output Impedance: 0.1  $\Omega$  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 ends and special shielding for noise reduction, 1 and 2 m
- PCL-10168-2: 68-pin SCSI-II Wiring Terminal Board for DIN-rail mounting
- ADAM-3968: 68-pin SCSI-II Wiring Terminal Board for DIN-rail mounting