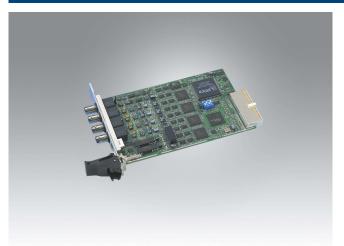
# **MIC-3714** MIC-3716

30 MS/s, 12-bit, Simultaneous 4-ch **Analog Input 3U CompactPCI® Card** 250 kS/s, 16-bit, 16-ch Multifunction **3U CompactPCI® Card** 





MIC-3714/3

C € FCC

MIC-3716/3

CE

## **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

50  $\Omega/1$  M $\Omega$ /jumper selectable, 100 pF Input Impedance

 Sampling Modes Software, pacer, post-trigger, pre-trigger, delay-trigger,

about-trigger

Input Range (V)  $\pm 5$ ,  $\pm 2.5$ ,  $\pm 1$ ,  $\pm 0.5$ 

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 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  $0 \sim 70 \,^{\circ}\text{C} \, (32 \sim 158 \,^{\circ}\text{F})$  Storage Temperature -20 ~ 85 °C (-4 ~ 185 °F)

Storage Humidity 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Certification CE, FCC

## **Ordering Information**

MIC-3714/3-AE 3U, 30 MS/s Simultaneous 4-ch Analog Input Card

 ADAM-3909-AE DB-9 Wiring Terminal for DIN-rail Mounting

 PCL-10901-3E PS2 to DB-9 wiring cable, 3 m PCL-1010B-1E BNC to BNC wiring cable, 1 m

### **Specifications**

Analog Input Channels

16 single-ended, 8 differential, or combination

16 bits 250 kS/s Resolution Max. Sampling Rate FIFO Size 1024 samples/ch CIFU SIZE
Overvoltage Protection
Input Impedance
Sampling Modes
Input Range

30 Vp-p 100 MΩ/10 pF (Off); 100 MΩ/100 pF (On)

Software, pacer, or externa

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 Resolution Output Rate 16 bits Static update

Output Range

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

Single output

Relative: ±1LSB

Slew Rate Driving Capability Output Impedance Operation Mode +20 mA  $0.1~\Omega$  max.

Accuracy **Digital Input/Output** 

16, 5V/TTL

Logic 0: 0.4 V max. Logic 1: 2.4 V min. Input Voltage Output Voltage

Logic 0: 0.4 V max. Logic 1: 2.7 V min. Sink: 0.4 V max. @ +8 mA Source: 2.4 V min. @ -0.4 mA Output Capability

Counter/Timer Channels

Compatibility 5 V/TTL 16 bits Resolution 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

Compact CI 68-pin SCSI-II female 160 x 100 mm (6.9" x 3.9") with 3U Bracket Typical: +5 V @ 850 mA, +12 V @ 600 mA Max.: +5 V @ 1 A, +12 V @ 700 m A I/O Connector Type Dimensions (L x H)

Certification

### Ordering Information

MIC-3716/3-AE

3U, 250 kS/s, 16-bit, 16-ch

High-Resolution Multifunction Card PCLD-8710-AE

Industrial Wiring Terminal Board with CJC circuit for DIN-rail Mounting. (cable not included) PCL-10168-1E/2E 68-pin SCSI-II cable with male connectors on both ends and special shielding for

noise reduction, 1 and 2 m ADAM-3968-AE 68-pin SCSI-II Wiring Terminal Board for DIN-rail Mounting