

MIC-3716

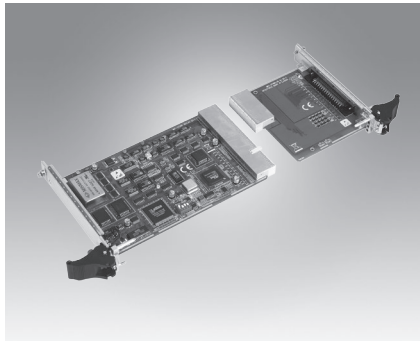
MIC-3723

MIC-3758

250 kS/s, 16-bit, 16-ch Multifunction 3U CompactPCI® Card

16-bit, 8-ch Analog Output 3U CompactPCI® Card

128-CH Isolated Digital I/O 3U CompactPCI® Card



MIC-3716/3



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 Ω /10 pF (Off); 100 M Ω /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 ± 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

Internal Reference	Bipolar	Unipolar
	$\pm 5, \pm 10$	0 ~ 5, 0 ~ 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/ μ s
- Driving Capability ± 20 mA
- Output Impedance 0.1 Ω max.
- Operation Mode Single output
- Accuracy Relative: ± 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

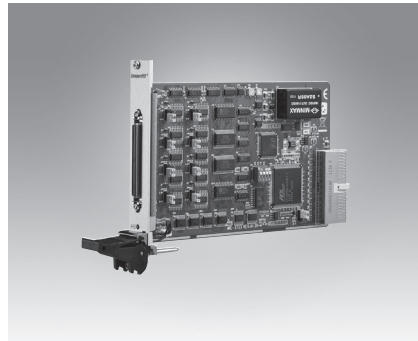
- Channels 3
- Compatibility 5 V/TTL
- Resolution 16 bits
- Max. Input Frequency 1 MHz
- Reference Clock Internal 10 MHz
External Clock Frequency 10 MHz
External Voltage Range TTL (Low: 0.8, High: 2 V)

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 (L x H) 160 x 100 mm (6.9" x 3.9") with 3U Bracket
- Power Consumption Typical: +5 V @ 850 mA, +12 V @ 600 mA
Max.: +5 V @ 1 A, +12 V @ 700 mA
- Certification CE

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



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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/ μ s
- Driving Capability 5 mA
- Output Impedance 0.1 Ω max.
- Operation Modes Single output, synchronized output

Digital Input/Output

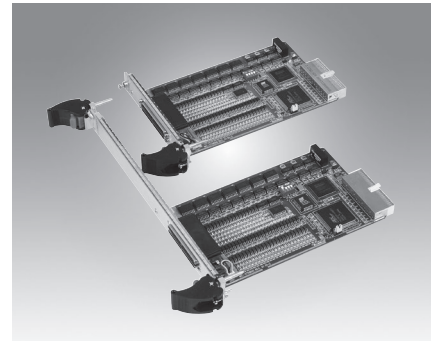
- Channels 16, 5V/TTL
- Input Voltage Logic 0: 0.8 V max.
Logic 1: 2.0 V min.
- Output Voltage Logic 0: 0.5 V max. @ 24 mA
Logic 1: 2.4 V min. @ -15 mA
- Output Capability Sink: 0.5 V max. @ 24 mA
Source: 2.4 V min. @ -15 mA

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 (L x H) 160 x 100 mm (6.9" x 3.9") with 3U Bracket
- Power Consumption Typical: 5 V @ 850, 12 V @ 600 mA
- Certification CE

Ordering Information

- MIC-3723/3-AE 3U CompactPCI 16-bit, 8-ch non-isolated analog output card
- PCL-10168-1E 68-pin SCSI-II cable with male connectors on both
- PCL-10168-2E 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



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Specifications

Isolated Digital Input

- Channels 64
- Input Voltage Logic 0: 2.5 V max.
Logic 1: 5 V min. (25 V max)
- Interrupt Capable Ch. 64
- Isolation Protection 2,500 V_{DC}
- Opto-Isolator Response 50 μ s
- Input Resistance 3 k Ω

Isolated Digital output

- Channels 64
- Output Type Sink (NPN)
- Isolation Protection 2500 V_{DC}
- Output Voltage 5 ~ 40 V_{DC}
- Sink Current 90 mA max./Channel
- Opto-isolator Response 50 μ s

General

- Bus Type CPCI bus spec. 2.1 compliant
- I/O Connectors 1 x MINI-SCSII HDRA-E100 Female
- Dimensions (L x H) 160 x 100 mm (6.9" x 3.9") with 3U Bracket
- Power Consumption Typical: +5 V @ 800 mA, +3.3 V @ 600 mA
Max: +5 V @ 1 A, +3.3 V @ 1 A
- Operating Temperature 0 ~ 60°C (32 ~ 140°F)
(IEC 68-2-1.2)
- Storage Temperature -20° ~ 70°C (-4° ~ 158°F)
- Storage Humidity 5 ~ 95% (IEC 68-2-3)
non-condensing

Ordering Information

- MIC-3758/3-AE 3U CompactPCI 128-ch isolated Digital I/O card
- PCL-101100S-1 100-pin SCSI Cable, 1 m
- ADAM-39100 100-pin SCSI wiring terminal, DIN-rail mounting