

ADAM-3617-AE

ADAM-3624-AE

4-ch Analog Input Module

4-ch Analog Output Module

NEW



ADAM-3617-AE

RoHS
COMPLIANT
2002/95/EC

CE FCC

Specifications

General

- Power Consumption 1W (Max)
- Certification CE/FCC

Analog Input

- Channels 4, differential
- Input Type Voltage, Current
- Resolution 16-bit
- Voltage/Current $\pm 10V$, $\pm 2.5V$, $0 \sim 20mA$, Range 4 ~ 20mA
- Sampling rate 10 sample/second (total)
- Input Impedance $0.1 M\Omega$
- Accuracy $\pm 0.1\%$ or better of FSR (Voltage) $\pm 0.2\%$ or better of FSR (Current)
- CMR @ 50/60 Hz 90 dBs
- NMR @ 50/60 Hz 60 dBs
- Span Drift ± 25 ppm/ $^{\circ}C$
- Zero Drift $\pm 6 \mu V/^{\circ}C$, $\pm 6 \mu A/^{\circ}C$
- Isolation Voltage $2000 V_{DC}$
- Burn-out detection Yes (Current-only)

Environment

- Operating Temp. $-40 \sim 70^{\circ}C$
- Storage Temp. $-40 \sim 85^{\circ}C$
- Humidity 5 ~ 95% (no-condensation)

Ordering Information

- ADAM-3617-AE 4-ch Analog Input Module

NEW



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Specifications

General

- Power Consumption 1W (Max)
- Certification CE/FCC

Analog Output

- Channels 4
- Output Impedance 4Ω
- Output Settling Time $10 \mu s$
- Driving Load Voltage: $2k\Omega$
Current: 500Ω
- Output Type Voltage, Current
- Output Range $0 \sim 10 V_{DC}$
 $0 \sim 20 mA$ ~ $20 mA$
- Resolution 12-bit
- Accuracy $\pm 0.3\%$ of FSR (Voltage) at $25^{\circ}C$ $\pm 0.3\%$ of FSR (Current) at $25^{\circ}C$
- Current Load Resistor $0 \sim 500\Omega$
- Drift ± 25 ppm/ $^{\circ}C$
- Isolation Voltage $2000 V_{DC}$

Environment

- Operating Temp. $-40 \sim 70^{\circ}C$
- Storage Temp. $-40 \sim 85^{\circ}C$
- Humidity 5 ~ 95% (no-condensation)

Ordering Information

- ADAM-3624-A 4-ch Analog Output Module

ADAM-3613-AE

ADAM-3618-AE

4-ch RTD Input Module

4-ch Thermocouple Input Module

NEW



ADAM-3613-AE

RoHS
COMPLIANT
2002/95/EC

CE FCC

Specifications

General

- Power Consumption 1W(Max)
- Certification CE/FCC

Analog Input

- Channels 4, 3-wired
- Input Impedance >1M Ω
- Input Type Pt, Balco and Ni RTD
- Temperature Range

Pt 100	-50°C ~ 150°C
	0°C ~ 100°C
	0°C ~ 200°C
	0°C ~ 400°C
	-200°C ~ 200°C

Supports both IEC 60751 ITS90 (0.03851 W/W/°C) and JIS C 1604 (0.03916 W/W/°C)

Pt 1000	-40°C ~ 160°C
Balco 500	-30°C ~ 120°C
Ni 518	-80°C ~ 100°C
	0°C ~ 100°C
- Resolution 16-bit with accuracy 0.1% of Full Scale Range
- Sampling Rate 10 sample/second (total)
- Accuracy $\pm 0.1\%$ of Full Scale Range
- CMR @ 50/60 Hz 90dBs
- NMR @ 50/60 Hz 60dBs
- Span Drift ± 25 ppm/°C
- Zero Drift $\pm 6\mu V/^\circ C$
- Isolation Voltage 2000 V_{DC}
- Burn-out detection Yes

Environment

- Operating Temp. -40 ~ 70 °C
- Storage Temp. -40 ~ 85 °C
- Humidity 5~95% (no-condensation)

Ordering Information

- ADAM-3613-AE 4-ch RTD Input Module

NEW



ADAM-3618-AE

RoHS
COMPLIANT
2002/95/EC

CE FCC

Specifications

General

- Power Consumption 1W (Max)
- Certification CE/FCC

Analog Input

- Channels 4
- Input Type J, K, T, E, R, S, B Type Thermocouple
- Temperature Range

Type J	(0 ~ 760°C)
Type K	(0 ~ 1370°C)
Type T	(-100 ~ 400°C)
Type E	(0 ~ 1000°C)
Type R	(500 ~ 1750°C)
Type S	(500 ~ 1750°C)
Type B	(500 ~ 1800°C)
- Resolution 16-bit
- Sampling rate 10 sample/second (total)
- Input Impedance >1 M Ω
- Accuracy $\pm 3^\circ C$
- CMR @ 50/60 Hz 90 dBs
- NMR @ 50/60 Hz 60 dBs
- Span Drift 0.0055%
- Zero Drift $\pm 6 \mu V/^\circ C$
- Isolation Voltage 2000 V_{DC}
- Burn-out detection Yes

Environment

- Operating Temp. -40 ~ 70°C
- Storage Temp. -40 ~ 85°C
- Humidity 5 ~ 95% (no-condensation)

Ordering Information

- ADAM-3618-AE 4-ch Thermocouple Input Module

ADAM-3651

ADAM-3656

8-ch Digital Input Module

8-ch Digital Output Module

NEW



ADAM-3651

Specifications

General

- Power Consumption 1 W (max.)
- Certification CE/FCC

Digital Input

- Channels 8
- Wet Contact Logic Level 0: 0 ~ +5 V
Logic Level 1: +11~30V
- Rated Input >5m A @ 12 V_{DC}
- Current >10m A @ 24 V_{DC}
- Input Filter 3 ms
- Pulse Input Frequency 150 Hz (max.)
- Over Voltage +40 V_{DC}

Protection

- Isolation Voltage 2000 V_{DC}

Environment

- Operating Temp. -40 ~ 70°C
- Storage Temp. -40 ~ 85°C
- Humidity 5 ~ 95% (no-condensation)

Ordering Information

- ADAM-3651-AE 8-ch Digital Input Module

NEW



ADAM-3656

Specifications

General

- Power Consumption 1 W (max.)
- Certification CE/FCC

Digital Input

- Channels 8
- Output Type Open Collector (Sink)
- OC Output Rated Voltage 8 ~ 30 V_{DC}
Rated Current 200 mA (max load)
- Over Voltage +40 V_{DC}

Protection

- Pulse Output 1 KHz

Frequency

- Opto-isolator 150 us (max)

Response time

- Isolation Voltage 2000 V_{DC}

Environment

- Operating Temp. -40 ~ 70°C
- Storage Temp. -40 ~ 85°C
- Humidity 5 ~ 95% (no-condensation)

Ordering Information

- ADAM-3656-AE 8-ch Digital Output (Sink type) Module