

Модули аналогового ввода/вывода серии ADAM-501 X, ADAM-5024

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

ADAM-5013 ADAM-5017 ADAM-5017P

3-ch RTD Input Module

8-ch Analog Input Module

8-ch Analog Input Module with Independent Input Range



ADAM-5013



Specifications

General

- **Certification** CE
- **Connectors** 1 x Plug-in screw terminal (#14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 1.1 W (max.)

RTD Input

- **Accuracy** $\pm 0.1\%$ or better
- **Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
- **Channels** 3
- **CMR @ 50/60 Hz** 150 dB
- **Input Connections** 2, 3 or 4 wire
- **Input Impedance** 2 M Ω
- **Input Type** PT100 or Ni RTD
- **NMR @ 50/60 Hz** 100 dB
- **Resolution** 16-bit
- **RTD Types and Temperature Ranges**

IEC RTD 100 ohms			
Pt	-100°C	to	+100°C
			a=0.00385
Pt	0°C	to	+100°C
			a=0.00385
Pt	0°C	to	+200°C
			a=0.00385
Pt	0°C	to	+600°C
			a=0.00385
JIS RTD 100 ohms			
Pt	-100°C	to	+100°C
			a=0.00392
Pt	0°C	to	+100°C
			a=0.00392
Pt	0°C	to	+200°C
			a=0.00392
Pt	0°C	to	+600°C
			a=0.00392
Ni RTD			
Ni	-80°C	to	+100°C
Ni	0°C	to	+100°C
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** $\pm 0.01^\circ\text{C}/^\circ\text{C}$
- **Zero Drift** $\pm 0.015^\circ\text{C}/^\circ\text{C}$

Protection

- **Isolation Voltage** 3,000 V_{DC}

Ordering Information

- **ADAM-5013** 3-ch RTD Input Module

Specifications

General

- **Certification** CE, FM
- **Connectors** 1 x Plug-in screw terminal (#14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 1.25 W (max.)

Analog Input

- **Accuracy** Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better
- **Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
- **Channels** 8 differential
- **CMR @ 50/60 Hz** 92 dB min.
- **Input Impedance** Voltage: 2 M Ω
Current: 120 Ω (Build-in 120 Ω resistor for Current input)
- **Input Range** ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V; ± 20 mA
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^\circ\text{C}$
- **Zero Drift** ± 6 $\mu\text{V}/^\circ\text{C}$

Protection

- **Isolation Voltage** 3,000 V_{DC}
- **Fault and Overvoltage Protection** Withstands overvoltage up to ± 35 V

Note: The voltage difference between any two pins must not exceed ± 15 V

Ordering Information

- **ADAM-5017** 8-ch Analog Input Module

Specifications

General

- **Certification** CE, FCC Class A
- **Connectors** 1 x Plug-in terminal block (#14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 1.25 W (max.)

Analog Input

- **Accuracy** Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better
- **Channels** 8 (differential, each channel can be configured with different range)
- **CMR @ 50/60 Hz** 92 dB min.
- **Input Impedance** Voltage: 800K Ω
Current: 120 Ω (Build-in 120 Ω resistor for Current Input) for Current Input)
- **Input Range** 0 ~ 150 mV, 0 ~ 500 mV, 0 ~ 1 V, 0 ~ 5 V, 0 ~ 10 V, 0 ~ 15 V, ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 15 V, ± 20 mA, 4 ~ 20 mA
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 ppm/ $^\circ\text{C}$
- **Zero Drift** ± 6 $\mu\text{V}/^\circ\text{C}$
- **High Common Mode** 200 V_{DC}

Protection

- **Over Voltage Protection**
- **Built-in TVS/ESD Protection**
- **Isolation Voltage** 3,000 V_{DC}

Note: Does not support ADAM-5510KW series

Ordering Information

- **ADAM-5017P** 8-ch Analog Input Module w/ Ind. Input Range



ADAM-5017H



Specifications

- **Channels** 8 differential
- **Effective Resolution** 12-bit plus sign bit
- **Input Type** mV, V, mA
- **Input Range** ± 250 mV, ± 500 mV,
 ± 1 V, ± 5 V, ± 10 V, 0 ~
 $+500$ mV,
0 ~ $+1$ V, 0 ~ $+5$ V, 0 ~
 $+10$ V,
0 ~ 20 mA, 4 ~ 20 mA
- **Isolation Voltage** 3000 V_{DC}
- **Sampling Rate** Depends on base unit
ADAM-5000/485 & 5000E: 100 samples/sec
ADAM-5510:
8000 samples/sec max.: one ADAM-5017H installed
ADAM-5510KW: Up to 100 samples/sec
ADAM-5511: Up to 100 samples/sec
ADAM-5000/TCP:
1000 samples/sec max.: depending on the
performance of client server or controller
- **Input Impedance** 20 M Ω (voltage inputs)
125 Ω (current inputs)
- **Bandwidth** 1 kHz
- **Signal Input Bandwidth** 1 kHz for both voltage
and current inputs
- **Accuracy** $\pm 0.1\%$ or better
- **CMR @ 50/60 Hz** 92 dB min
- **Power Consumption** 1.75 W (typical);
2.2 W (max)
- **Distinct Range Settings Allowed on Each Channel**

Note: The voltage difference between any two pins must not exceed ± 15 V

Ordering Information

- **ADAM-5017H** 8-channel High-Speed Analog Input Module - mV, V, mA

ADAM-5017UH

ADAM-5018

ADAM-5018P

8-ch Ultra High Speed Analog Input Module

7-ch Thermocouple Input Module

7-ch Thermocouple Input Module with Independent Input Range



Specifications

General

- **Certification** CE
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 2.2 W (max.)

Analog Input

- **Accuracy** $\pm 0.1\%$ or better
- **Bandwidth** 200 kHz
- **Channels** 8 differential
- **Differential Non-linear** ± 1 LSB
- **Input Impedance** Voltage: 2 M Ω
Current: 120 Ω (Build-in)
- **Integral Non-linear** ± 1 LSB
- **Input Range** ± 10 V, +0 ~ 10 V,
0 ~ 20 mA, +4 ~ 20 mA
- **Low pass filter** Configured by User
- **Resolution** 12-bit
- **Sampling Rate** Depends on base unit
ADAM-5000/485 & 5000E:
100 Samples/sec max (Total): one ADAM-5017UH installed
ADAM-5000/TCP & 5000L/TCP:
100 Samples/sec max (Total): one ADAM-5017UH installed
ADAM-5510 :
200K Samples/sec max (Single Channel): one ADAM-5017UH installed
ADAM-5550 & ADAM-5560:
1K Samples/sec max(single channel): one ADAM-5017UH installed
*Depending on the performance of client server or controller
- **Signal Input Bandwidth** 200 kHz for both voltage and current inputs

Protection

- **Isolation Voltage** 3,000 V_{DC}
- Note:**
- 1) The voltage difference between any two pins must not exceed 15 V
 - 2) Distinct range settings allowed on each channel
- Note: Not support ADAM-5510KW series

Ordering Information

- **ADAM-5017UH** 8-ch Ultra High Speed Analog Input Module

Specifications

General

- **Certification** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 0.63 W (max.)

Thermocouple Input

- **Accuracy** $\pm 0.1\%$ or better
- **Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
- **Channels** 7 differential
- **CMR @ 50/60 Hz** 92 dB min
- **Input Impedance** 2 M Ω
- **Input Range** ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 20 mA
mV, V, mA, thermocouple
- **Input Type**
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** ± 6 μ V/ $^{\circ}$ C
- **T/C Type and Temperature Range**

J	0 $^{\circ}$	~	760 $^{\circ}$ C
K	0 $^{\circ}$	~	1,370 $^{\circ}$ C
T	-100 $^{\circ}$	~	400 $^{\circ}$ C
E	0 $^{\circ}$	~	1,000 $^{\circ}$ C
R	500 $^{\circ}$	~	1,750 $^{\circ}$ C
S	500 $^{\circ}$	~	1,750 $^{\circ}$ C
B	500 $^{\circ}$	~	1,800 $^{\circ}$ C

Protection

- **Fault and Overvoltage Protection** Withstands overvoltage up to ± 35 V
- **Isolation Voltage** 3,000 V_{DC}

Ordering Information

- **ADAM-5018** 7-ch Thermocouple Input Module
- **ADAM-5018SK** ADAM-5018 with CJC kit/external

Specifications

General

- **Certification** CE, FCC class A
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 0.63 W (max.)

Thermocouple Input

- **Accuracy** Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better
- **Bandwidth** 13.1 Hz @ 50 Hz
15.72 Hz @ 60 Hz
- **Channels** 7 (differential, each channel can be configured with different range)
- **CMR @ 50/60 Hz** 92 dB min
- **Input Impedance** 20 M Ω . (Build-in 120 Ω . Register for Current Input)
- **Input Range and Types**

Thermocouple			
J	0	~	760 $^{\circ}$ C
K	0	~	1,370 $^{\circ}$ C
T	-100	~	400 $^{\circ}$ C
E	0	~	1,000 $^{\circ}$ C
R	500	~	1,750 $^{\circ}$ C
S	500	~	1,750 $^{\circ}$ C
B	500	~	1,800 $^{\circ}$ C
Current			
		± 20 mA,	4 ~ 20 mA
Voltage			
		± 15 mV (0.2%),	± 50 mV,
		± 100 mV,	± 500 mV
		± 1 V,	± 2.5 V
- **Resolution** 16-bit
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** ± 6 μ V/ $^{\circ}$ C
- **High Common Mode** 200 V_{DC}

Protection

- **Fault and Overvoltage Protection** Withstands overvoltage up to ± 35 V
- **Isolation Voltage** 3,000 V_{DC}
- **Filter function** Yes
- **Built-in TVS/ESD Protection**

Note: Not support ADAM-5510KW series

Ordering Information

- **ADAM-5018P** 7-ch Thermo. Input Module w/ Ind. Input Range



Specifications

General

- **Certification** CE, FM
- **Connectors** 1 x Plug-in screw terminal (# 14 ~ 22 AWG)
- **Enclosure** ABS+PC
- **Power Consumption** 2.9 W (max.)

Analog Output

- **Accuracy** $\pm 0.1\%$ of FSR for current output
 $\pm 0.2\%$ of FSR for voltage output
- **Channels** 4
- **Current Load Resistor** 0 ~ 500 Ω (source)
- **Output Type** mA, V
- **Output Range** 0 ~ 20 mA, 4 ~ 20 mA, 0 ~ 10 V
- **Programmable Output Slope** 0.125 ~ 128.0 mA/sec.
0.0625 ~ 64.0 V/sec.
- **Resolution** 12-bit
- **Resolution** $\pm 0.015\%$ of FSR
- **Span Temperature Coefficient** ± 25 PPM/ $^{\circ}$ C
- **Zero Drift** Voltage: ± 30 μ V/ $^{\circ}$ C
Current: ± 0.2 μ A/ $^{\circ}$ C

Protection

- **Isolation Voltage** 3,000 V_{DC}

Ordering Information

- **ADAM-5024** 4-ch Analog Output Module

Встраиваемые промышленные компьютеры автоматизации серии UNO-1000

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93