

ARK-8011DHI

1-channel differential analog input (with the available link to thermocouple), 1-channel switch quantity input and 2-channel switch quantity output

**Specifications and Features****Communication Interface**

Communication Method: RS-485
Interface: 2-line
Speed: 300bps~115.2Kbps
Communication Distance: 1200m/9600bps

Digital Input Interface

Channel: 1-channel
Logic Level 0: Max. 1V
Logic Level 1: +3.5V~+30V
Input Impedance: 10KΩ
Isolation Voltage: 3000V_{DC}

Other Functions

Dual Watchdog Timer
Event Counter
TVS over-voltage protection; PTC protection
The chosen 24-bit ADC delivers higher measurement precision
Can be linked to the thermocouple directly

Analog Input Interface

Interface: 1-channel differential signal
Resolution: 16-bit
Sample Rate: 10sps
Voltage Input Range: ±15mV, ±50mV, ±100mV, ±500mV, ±1V, ±2.5V
Current Input Range: ±20mA
Input Type: Thermocouple
Thermocouple Type: J,K,T,E,R,S,B,N
Analog Error: ±0.02%

Digital Output Interface

Channel: 2-channel
Output Features: Open circuits of triode collectors
Max. Sink Current: 30mA
Max. Output Voltage: 40V

Power Supply

Power Supply: 10V~30V

General Specifications

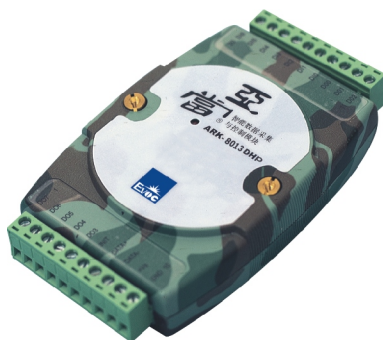
Power Consumption: <2.2W
Operating Temperature: -25°C~+75°C
Storage Temperature: -40°C~+85°C

Ordering Information

Part Number	Model Number	Description
0070-001590	ARK-8011DHI	1-channel differential analog input (with the available link to thermocouple), 1-channel switch quantity input and 2-channel switch quantity output

ARK-8013DHP

An isolated 16-bit, 1-channel heat-resistance input module

**Specifications and Features****Communication Interface**

Communication Method: RS-485
Interface: 2-line
Speed: 300bps~115.2Kbps
Communication Distance: 1200m/9600bps

Power Supply

Power Supply: 10V~30V

Analog Output Interface

Channel: 1 channel heat-resistance differential input channel (Pt, Cu)
16-bit Resolution
10sps Sample Rate
Analog Precision : ±0.05%
Isolation Voltage: 3000V_{DC}

Other Function

Dual Watchdog Timer

General Specifications

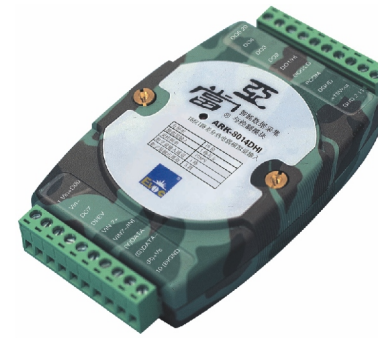
Power Consumption: <2.5W
Operating Temperature: -25°C~+75°C
Storage Temperature: -40°C~+80°C

Ordering Information

Part Number	Model Number	Description
0070-001600	ARK-8013DHP	An isolated 16-bit, 1-channel heat-resistance input module

ARK-8014DHI

A 1-channel differential analog signal input, 1-channel digital input, 8-channel digital output module

**Specifications and Features****Communication Interface**

Communication Method: RS-485
Interface: 2-line
Speed: 300bps~115.2Kbps
Communication Distance: 1200m/9600bps

Digital Input Interface

Channel: 1-channel
Logic Level 0: Max. 1V
Logic Level 1 : 3.5V~30V
Channel Count Frequency: ≤50Hz
Isolation Voltage: 3000V_{DC}

Isolation Voltage Output

+15V ±5% @5mA~30mA

Power Supply

Power Supply: 10V~30V

Analog Input Interface

Input Type: differential signal
Channel: 1-channel
Resolution: 16-bit
Voltage Metering: 5 programmable range: ±10V, ±5V, ±1V, ±500mV, ±150mV
Current Metering: 20mA (with an external resistance of 125 ohms)
Supports linear conversion
Precision: ±0.02% FSR

Digital Input Interface

Channel: 8-channel
Output Features: output via Darlington transistor
Sink Current: Max. 300mA on a single channel and Max. 100mA on a channel when all the 8 channels are at work

Other Function

Dual Watchdog Timer

General Specifications

Power Consumption: <3.0W
Operating Temperature: -25°C~+75°C
Storage Temperature: -40°C~+80°C

Ordering Information

Part Number	Model Number	Description
0070-001870	ARK-8014DHI	A 1-channel differential analog signal input, 1-channel digital input, 8-channel digital output module

ARK-8017DHI

A 16-bit, 8-channel analog input module

**Specifications and Features****Communication Interface**

Communication Method: RS-485
Connector: 2-line
Speed: 300bps~115.2Kbps
Communication Distance: 1200m/9600bps

Power Supply

Power Supply: 10V ~30V

Other Function

Watchdog Timer

Analog Input Connector

Channel: 8-channel differential signal/6-channel differential signal, 2-channel single-ended
Resolution: 16-bit
Voltage Input Range: ±10V, ±5V, ±1V, ±500mV, ±150mV
Current Input Range: 20mA (which needs external parallel connection of 125±1% ohms)
Sample Rate 10sps
Precision: ±0.02% FSR
Isolation Voltage: 3000V_{DC}

General Specifications

Power Consumption: <2W
Operating Temperature: -25°C~+75°C
Storage Temperature: -40°C~+80°C

Ordering Information

Part Number	Model Number	Description
0070-000240	ARK-8017DHI	A 16-bit, 8-channel analog input module

1

Full-Size/Half-Size Slot CPU Cards

2

SBC/Motherboard Modules

3

Embedded Box PC

4

Network Application Computers

5

Industrial PC

6

HMI

7

EVOG Rugged Series

8

MCC Series

9

Chassis

10

Data Acquisition Boards & Modules

11

Accessories

1

Full-Size/Half-Size Slot CPU Cards

2

SBC/Motherboard Modules

3

Embedded Box PC

4

Network Application Computers

5

Industrial PC

6

HMI

7

EVOG Rugged Series

8

MCC Series

9

Chassis

10

Data Acquisition Boards & Modules

11

Accessories