ARK-8018DHI



A 16-bit, 8-channel differential analog input (with a direct link available to the thermocouple) data acquisition module

Analog Input Interface

Current Input Range: ±20mA

Input Type: Thermocouple Thermocouple Type: J,K,T,E,R,S,B,N

Analog Error: ±0.05% FSR

Resolution: 16-bit

Sample Rate: 10sps

Interface: 8-channel differential signal/6-channel

Voltage Input Range: ±15mV,±50mV,±100mV,±500mV,±1V,±2.5V

differential signal, 2-channel single-en

Specifications and Features **Communication Interface**

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

Power Supply Power Supply: 10V~30V

Other Functions

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

General Specifications

Power Consumption: <1.6W	
Operating Temperature: -25°C~75°C	
Storage Temperature: -40°C~+85°C	

ARK-8022DHP



Specifications and Feature

Communication Interface Communication Method: RS-485

Interface: 2-line Speed: 300bps~115.2Kbps Communication Distance: 1200m/96

Analog Input Interface

Resolution: 16-bit Channel: 4-channel (2-channel for vo 2-channel for current output) Voltage Output Range: 0V~ 10V Current Output Range: 0 ~ 20mA , 4n Independent output channels. Analog Precision: $\pm 0.05\%$

General Specifications

Power Consumption: <3.2W Operating Temperature: -25°C-+75°C Storage Temperature: -40°C-+80°C

C	Ordering Informa	tion
	Part Number	Model Numbe
	0070-001730	ARK-8018DHI

Information			
lumber	Model Number	Description	
01730	ARK-8018DHI	A 16-bit, 8-channel differential analog input (with a direct link available to the thermocouple)	
		data acquisition module	

ARK-8033DHP A 3-channel heat-resistance differential input data acquisition module



Specifications and Features	
Communication Interface	Analog Input Interface
Communication Method: RS-485	Channel: 3-channel heat-resista
Interface: 2-line	(Pt, Cu)
Speed: 300bps~115.2Kbps	Connecting: 2/3/4 line RTD
Communication Distance: 1200m/9600bps	Heat-resistance Type: Pt100a=0 Cu50 Cu100
Power Supply	Sample Rate: 10sps
Power Supply: 10V~30V	Analog Precision: ±0.05% FSR
	Isolation Voltage: 3000V _{DC}

Other Function Dual Watchdog Timer

С	Channel: 3-channel heat-resistance differential input channel
	Pt, Cu)
Ċ	Connecting: 2/3/4 line RTD
Н	leat-resistance Type: Pt100a=0.00385 Pt100a=0.003916
С	Cu50 Cu100
S	ample Rate: 10sps
A	nalog Precision: ±0.05% FSR
ls	solation Voltage: 3000Vpc

eneral Specifications

Power Consumption: <1.5W
Operating Temperature: -25°C~+75°C
Storage Temperature: -40°C~+80°C

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Ordering Informat	ion	
Part Number	Model Number	Description
0070-001610	ARK-8033DHP	A 3-channel heat-resistance differential input data acquisition module

Ordering Informat	tion	
Part Number	Model Number	Description
0070-001690	ARK-8022DHP	A 4-channel digital input and 4-channel analog output module

ECM-9588E4



Specifications and Featur

System Resource CPU: 80188 compliant CPU, 100MHz SDRAM:1M byte

COM Port

Serial Port (isolated): 1 x 9-pin standard RS-232 port Serial Port (RS-232/RS-485): 3 x RS-232 (3-line)/RS-485 Baud Rate: Up to 115.2Kbps Driver Capacity: RS-485 supports 255 nodes 485 Communication Distance: 1200m/9600bps

General Specifications

Power Consumption: <3W Operating Temperature: -10°C~+65°C Storage Temperature: +20°C~80°C

Ordering Information		
Part Number	Model Number	Desc
0070-001740	ECM-9588E4	Etherr
		one st

Modules

A 4-channel digital input and 4-channel analog output module

res	
	Digital Input Interface
	Channel: 4-channel
	Logic Level O: Max. 1V
	Logic Level 1 : 4V~30V
600bps	Channel Count Frequency: =100Hz
	Input Impedance: 3kΩ
	Isolation Voltage: 3000V _{DC}
oltage output,	
	Power Supply
	Power Supply: 10V~30V
4mA~ 20mA	
	Other Function
	Dual Watchdog Timer

It is an Ethernet and serial port data conversion module with two 10/100 Base-T Ethernet ports (one of them works as redundant network port), one standard RS-232 port and three RS-232 (3-line)/RS-485 ports

Network Port

	Port Quantity and Type: 2 x 10/100 Base-T Ethernet port one of which works as redundant network port
	Maximum Communication Distance: 100M
	Protocol Support: TCP, UDP
port	
	Power Supply

Power Supply Power Supply: 10V~30V

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rnet-enabled communication controller with two 10/100 Base-T Ethernet ports, standard RS-232 port and three RS-232 (3-line)/RS-485 ports