

Analog Modules

A1S64AD Four Channel Analog Input Module

The A1S64AD analog input module can accept either current or voltage input signals. These signals are then converted into a 16 bit (\pm) binary value as a sequence control resource. Input signals can be instantly read, or they can be sampled for user programmable time/count average processing. Other features of this module include:

- Offset/gain setting switch
- Select sampling function or average function
- Permit or forbid A/D conversion by channel



■ A1S64AD specifications

Number of input channels	4
Analog input	Voltage: DC 0 – \pm 10V, input resistance 1M Ω Current: DC 0 – \pm 20mA, input resistance 250 Ω
Digital output	16 bit (–12,288 to +12,287 at most)
Maximum resolution	Voltage: 0.83mV (1/12000) Current: 3.3 μ A (1/6000)
Overall accuracy	\pm 1%
Maximum conversion time	20ms
Absolute maximum analog input	Voltage: DC \pm 15V Current: DC \pm 30mA
Insulation method	Photocoupler insulation between input terminals and internal circuitry No insulation between channels
Number of I/O points required	32
Current consumption (5VDC)	0.4A

A1S68AD Eight Channel Analog Input Module

The A1S68AD analog input module, which can also accept either current or voltage input signals, has a total of 8 input channels. Each channel can be set individually by means of dip switches located inside the cover to accommodate various input types and ranges. Other features of this module include:

- Read data from 8 channels at once with the FROM command
- Select sampling function or average function
- Permit or forbid A/D conversion by channel



■ A1S68AD specifications

Analog input	Voltage: –10 to 0 to 10 V (1M Ω input resistance); Current: 0 to 20mA (250 Ω input resistance)		
Conversion characteristic	Voltage input	Current input	Digital output value
	0 to 10V	—	0 to 4000
	–10 to 10V	—	–2000 to 2000
	0 to 5V	0 to 20mA	0 to 4000
	1 to 5V	4 to 20mA	0 to 4000
Absolute maximum input	Voltage: \pm 35V; Current: 30mA		
Conversion speed	0.5ms/ch		
Overall accuracy	\pm 1%		
Insulation method	Photocoupler insulation between input terminals and internal circuitry No insulation between channels		
No. of I/O points required	32		
Consumption current (5VDC)	0.4A		