



KB60 [6050]

**6-ch Digital Input Module,  
8-ch Digital Output Module****General**

<b>- Interface</b>	USB 1.1 (Compatible with USB 2.0)
<b>- Power Input</b>	USB Only
<b>- Operating Temperature</b>	-20 ~ 70 °C
<b>- Isolation Voltage</b>	1,000 V DC
<b>- Supported Protocols</b>	ModbusRTU/KiBus

**Digital Input**

<b>- Channels</b>	6
<b>- Input Level</b>	
Dry Contact:	Logic level 0: Close to GND Logic level 1: Open
Wet Contact:	Logic level 0: 1 V max. Logic level 1: 3.5 ~ 30 V
Pull up Resistor: 1 kΩ to 5 V	

**Digital Output**

<b>- Channels</b>	8
	Open Collector Transistor
<b>- Max Current Sink</b>	



KB60 [6052]

**8-ch Isolated Digital Input  
Module****General**

<b>- Interface</b>	USB 1.1 (Compatible with USB 2.0)
<b>- Power Input</b>	USB Only
<b>- Operating Temperature</b>	-20 ~ 70 °C
<b>- Isolation Voltage</b>	1,000 V DC
<b>- Supported Protocols</b>	ModbusRTU/KiBus

**Photocoupler Input**

<b>- Channels</b>	8
<b>- Input Level</b>	
6 Differential Channels, 2 Single Ended	Logic level 0: 1 V max. Logic level 1: 3.5 ~ 24 V
<b>- Isolation Voltage</b>	

**- Input Resistance**

1 kΩ



KB60 [M6053]

**13-ch Digital Input Module****General**

<b>- Interface</b>	USB 1.1 (Compatible with USB 2.0)
<b>- Power Input</b>	USB Only
<b>- Operating Temperature</b>	-20 ~ 70 °C
<b>- Isolation Voltage</b>	1,000 V DC
<b>- Supported Protocols</b>	ModbusRTU/KiBus

**Digital Input**

<b>- Channels</b>	13
<b>- Input Level</b>	
Dry Contact:	Logic level 0: Close to GND Logic level 1: Open
Wet Contact:	

Logic level 0: 1 V max.

Logic level 1: 3.5 ~ 30 V

Pull up Resistor: 1 kΩ to 5 V



KB60 [6056]

**13-ch Sink Type Isolated Digital Output Module**

**General**

- **Interface** USB 1.1  
(Compatible with USB 2.0)
- **Power Input** USB Only
- **Operating Temperature** -20 ~ 70 °C
- **Isolation Voltage** 1,000 V DC
- **Supported Protocols** ModbusRTU/KiBus

**Digital Output**

- **Channels** 13  
Open Collector Photocoupler
- **Max Current Sink** 100 mA



KB60 [6060]

**4-ch Isolated Digital Input, 4-ch Relay Output Module**

**General**

- **Interface** USB 1.1  
(Compatible with USB 2.0)
- **Power Input** USB Only
- **Operating Temperature** -20 ~ 70 °C
- **Isolation Voltage** 1,000 V DC
- **Supported Protocols** ModbusRTU/KiBus

**Photocoupler Input**

- **Channels** 4
- **Input Level** Single Ended Input  
Logic level 0: 1 V max.  
Logic level 1: 3.5 ~ 24 V
- **Isolation Voltage** 1,000V RMS
- **Input Resistance** 1 kΩ

**Relay Output**

- **Channels** 4
- **Contact Rating** Type A  
0.3A/125 V AC, 1 A/30 V DC



KB60 [6413]

**4-ch RTD Input Module**

**General**

- **Interface** USB 1.1  
(Compatible with USB 2.0)
- **Power Input** USB Only
- **Operating Temperature** -20 ~ 70 °C
- **Isolation Voltage** 1,000 V DC
- **Supported Protocols** ModbusRTU/KiBus

**RTD Input**

- **Channels** 4
- **Input Connections** 2,3 or 4-wire
- **Input Type** Pt100  
(optional Pt1000)
- **Resolution** 16-bits
- **Sampling Rate** 1 sample/2seconds



KB60 [6015]

**8-ch Analog Input Module**

<b>General</b>	
- <b>Interface</b>	USB 1.1 (Compatible with USB 2.0)
- <b>Power Input</b>	USB
- <b>Ext. Power</b>	10 ~ 30 V DC
- <b>Power Consumption</b>	1.1 W @ 24 V DC
- <b>Isolation Voltage</b>	1,000 V DC
- <b>Supported Protocols</b>	ModbusRTU/KiBus
- <b>Operating Temperature</b>	-20 ~ 70 °C



KB60 [6023]

**4-ch Analog Output Module**

<b>General</b>	
- <b>Interface</b>	USB 1.1 (Compatible with USB 2.0)
- <b>Power Input</b>	USB
- <b>Ext. Power</b>	10 ~ 30 V DC
- <b>Power Consumption</b>	0.7 W @ 24 V DC
- <b>Isolation Voltage</b>	1,000 V DC
- <b>Supported Protocols</b>	ModbusRTU/KiBus
- <b>Operating Temperature</b>	-20 ~ 70 °C



KB60 [6026]

**8-ch Analog Output Module**

<b>General</b>	
- <b>Interface</b>	USB 1.1 (Compatible with USB 2.0)
- <b>Power Input</b>	USB
- <b>Ext. Power</b>	10 ~ 30 V DC
- <b>Power Consumption</b>	1.5 W @ 24 V DC
- <b>Isolation Voltage</b>	1,000 V DC
- <b>Supported Protocols</b>	ModbusRTU/KiBus
- <b>Operating Temperature</b>	-20 ~ 70 °C

**Analog Output**

- <b>Channels</b>	8 differential
- <b>Input Impedance</b>	Voltage Mode: 2 MΩ Current Mode: 250 Ω
- <b>Input Type</b>	mV or mA
- <b>Input Range</b>	Voltage Mode : +10 V, +5 V, +1.25 V, +625 mV, +156.25 mV, ±10 V, ±5 V, ±1.25 V, ±625 mV, ±156.25 mV
	Current Mode : +20 mA, ±20 mA
- <b>Accuracy</b>	Voltage mode: ±0.1 % or better Current mode: ±0.2 % or Better
- <b>Resolution</b>	16-bits
- <b>Sampling Period</b>	0.8sec

**Analog Output**

- <b>Channels</b>	4
- <b>Output Range</b>	0 ~ 20 mA
- <b>Current Load Resistor</b>	max. 500 Ω (source)
- <b>Programmable Output Slope</b>	0.1 ~ 128.0 mA/sec, No Delay
- <b>Resolution</b>	12-bits

**Analog Output**

- <b>Channels</b>	8
- <b>Inner Serial Resistor</b>	49.9 Ω
- <b>Current Limit</b>	10mA
- <b>Output Range</b>	0V ~ 10V
- <b>Programmable Output Slope</b>	0.050 ~ 64.0 V/sec, No Delay
- <b>Resolution</b>	12-bits