

I-7520 / I-7520A / I-7510 / I-7510A RS-232 to RS-422/485 Converter / RS-422/485 Repeater



I-7520: RS-232 to RS-485 Converter

- | Input: RS-232 protocol
- | Output: RS-485 protocol
- | "Self Tuner" inside
- | Speed: 300 ~115,200 bps
- | 250 modules in one RS-485 network without Repeater
- | 3000 V isolation
- | Multiple Baud Rate; Multiple Data Format
- | Communication distance:
 - s 2.1Km/9600 Bps
 - s 2.7Km/4800 Bps
 - s 3.6Km/2400 Bps

I-7520A: RS-232 to RS-422/485 Converter

- | Input: RS-232 protocol
- | Output: RS-422/485 protocol
- | Other specs same as I-7520

I-7510: RS-485 Repeater

- | "Self-tuner" inside
- | Multiple Baud Rate: 300,...9600,...115,200 BPS
- | Multiple Data Format
- | Automatically adjust Baud Rate and Data Format

I-7510A: RS-422/RS-485 Repeater

- | Same as I-7510
- | Plus RS-422 repeater

Analog Input/Output Modules Selection Guide

Module		I-7011/ I-7011D/ I-7011P/ I-7011PD	I-7012/ I-7012D	I-7012F/ I-7012FD	I-7013/ I-7013D	I-7033 I-7033D
Analog Input	Resolution	16 bit	16 bit	16/12 bit	16 bit	16 bit
	Input channel	1 diff.	1 diff.	1 diff.	1 diff.	3 diff.
	Sampling rate	10Hz	10Hz	10/100Hz	10Hz	15Hz (total)
	Voltage input	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V	+/-150mV +/-500mV +/-1V +/-5V +/-10V	+/-150mV +/-500mV +/-1V +/-5V +/-10V	-	-
	Current input	+/-20mA*	+/-20mA*	+/-20mA*	-	-
	Sensor input	J.K.T.E.R.S. B.N.C Add L,M for I-7011PD	-	-	Pt Ni-RTD	Pt Ni-RTD
	4 1/2 digit LED display	Yes for I-7 011 D / I-7 011 PD	Yes for I-7012D	Yes for I-7012FD	Yes for I-7013D	Yes for I-7033D
	Isolated loop power	-	-	-	-	-
	Input Linear scaling	-	-	-	-	-
	Isolation Voltage	3000V	3000V	3000V	3000V	3000V
Digital input & digital output	Digital input channels	1	1	1	-	-
	Digital output channels	2	2	2	-	-
	Event counter	Yes	Yes	Yes	-	-
	High/Low Alarm	Yes	Yes	Yes	-	-
Dual Watchdog Timer		Yes	Yes	Yes	Yes	Yes

* with external 125Ω resistor

Note: Specifications can be changed and added without notice in our constant efforts for improvement.

Analog Input/Output Modules Selection Guide

Module		I-7014D	I-7016/ I-7016D	I-7016P/ I-7016PD	I-7017	I-7017F	I-7018/ I-7018P	
Analog Input	Resolution	16 bit	16 bit	16 bit	16 bit	16/12 bit	16 bit	
	Input channel	1 diff.	2 diff.	1 diff.	8 diff.	8 diff.	8 diff.	
	Sampling rate	10Hz	10Hz	10/100Hz	10Hz	15Hz (total)		
	Voltage input	+/-150mV +/-500mV +/-1V +/-5V +/-10V	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-10V	+/-150mV +/-500mV +/-1V +/-5V +/-10V	+/-150mV +/-500mV +/-1V +/-5V +/-10V	+/-15mV +/-50mV +/-100mV +/-500mV +/-1V +/-2.5V
	Current input	+/-20mA	+/-20mA	+/-20mA	+/-20mA*	+/-20mA*	+/-20mA*	
	Sensor input	-	4 Wire	6 Wire	-	-	J.K.T.E.R. S. B.N.C Add L,M for I-7011PD	
	4 1/2 digit LED display	Yes	Yes for I-7016D	Yes for I-7016PD	-	-	-	
	Isolated loop power	Yes, +15V	-	-	-	-	-	
	Input Linear scaling	-	-	-	-	-	-	
	Isolation Voltage	3000V	3000V	3000V	3000V	3000V	3000V	
Digital input & digital output	Digital input channels	1	1	1	-	-	-	
	Digital output channels	2	4	4	-	-	-	
	Event counter	Yes	Yes	Yes	-	-	-	
	High/Low Alarm	Yes	Yes	Yes	Yes	Yes	Yes	
Dual Watchdog Timer		Yes	Yes	Yes	Yes	Yes	Yes	
* with external 125 Ω resistor								

Digital I/O, Relay and Counter Selection Guide

Module		I-7050/I-7050D	I-7052/I-7052D	I-7053/I-7053D	I-7041/I-7041D
Digital input and Digital output	Digital input channels	7	8 Isolation (5000V)	16	14 Isolation (3750V)
	Digital output channels (open collector)	8	-	-	-
Counter	Channels	7	8	16	14
	Input frequency	100Hz for I-7050D	100Hz for I-7052D	100Hz for I-7053D	100Hz for I-7041D
LED Display		Yes for I-7050D	Yes for I-7052D	Yes for I-7053D	Yes for I-7041D
Safe Value (When Host Fail or communication fail)		Yes	-	-	-
Power-on Preset Value		Yes	-	-	-
Dual Watchdog Timer		Yes	-	-	-

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Digital I/O, Relay and Counter Selection Guide

Module		I-7042/I-7042D	I-7043/I-7043D	I-7044/I-7044D	I-7060/I-7060D
Digital input and Digital output	Digital input channels	-	-	4 Isolation (3750V)	4 Isolation (3750V)
	Digital output channels (open collector)	13 Isolation (3750V)	16	8 Isolation (3750V)	4 Channel Relay Form A x 2 Form C x 2
Counter	Channels	-	-	4	4
	Input frequency	-	-	100Hz for I-7044D	100Hz for I-7060D
LED Display		Yes for I-7042D	Yes for I-7043D	Yes for I-7044D	Yes for I-7060D
Safe Value (When Host Fail or communication fail)		Yes	Yes	Yes	Yes
Power-on Preset Value		Yes	Yes	Yes	Yes
Dual Watchdog Timer		Yes	Yes	Yes	Yes

Digital I/O, Relay and Counter Selection Guide

Module		I-7063/I-7063D/I-7063A/I-7063AD/ I-7063B/I-7063BD	I-7065/I-7065D/I-7065A/I-7065AD/ I-7065B/I-7065BD
Digital input and Digital output	Digital input channels	8 Isolation (3750V)	4 Isolation (3750V)
	Digital output channels (open collector)	3 Channel Relay I-7063: Form A; AC 250V/5A, DC 30V/5A I-7063A: AC type SSR I-7063B: DC type SSR	5 Channel Relay I-7065: Form A; AC 250V 5A; DC 30V/5A I-7065A: AC type SSR I-7065B: DC type SSR
Counter	Channels	8	4
	Input frequency	100Hz (*1)	100Hz (*2)
LED Display		Yes for I-7063D/7063AD/7063BD	Yes for I-7065D/7065AD/7065BD
Safe Value (When Host Fail or communication fail)		Yes	Yes
Power-on Preset Value		Yes	Yes
Dual Watchdog Timer		Yes	Yes
* 1: for I-7063D, I-7063AD, I-7063BD *2: for I-7065D, I-7065AD, I-7065BD			

Digital I/O, Relay and Counter Selection Guide

Module		I-7066/I-7066D	I-7067/I-7067D	I-7080/I-7080D
Digital input and Digital output	Digital input channels	-	-	-
	Digital output channels (open collector)	7 Channel Photo Mos Relay	7 Channel Relay Form A	2 Channel
Counter	Channels	-	-	-
	Input frequency	-	-	-
LED Display		Yes for I-7066D	Yes for I-7067D	Yes for I-7080D
Safe Value (When Host Fail or communication fail)		Yes	Yes	Yes
Power-on Preset Value		Yes	Yes	Yes
Dual Watchdog Timer		Yes	Yes	Yes

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