



Order No.	Product Description	Order No.	Product Description
RT131-1BL02-DP	Digital 32 Input	RT133-1BH02-DP	Digital 8 Input/8 Output (Mosfet)
RT132-1BL02-DP	Digital 32 Output (Mosfet)	RT133-1BL02-DP	Digital 16 Input/16 Output (Mosfet)

Order No.	RT131-1BL02-DP	RT132-1BL02-DP
Type	Digital Input Module	Digital Output Module
Digital Input		
Number of inputs	32	0
Input filter	0.5ms	-
Nominal input voltage	24 V DC(-15%/+20%)	-
"1 " signal voltage	15~30VDC,7mA	-
"0 " signal voltage	0~5VDC	-
Port protect	Impact over voltage protection	
Digital Output		
Number of inputs	0	32
Output Type	-	Mosfet
Nominal input voltage	-	24 V DC(-15%/+20%)
"1 " signal voltage	-	Open drain output
"0 " signal voltage	-	Max:1.5VDC,10kΩ Load
Port protect	-	Overvoltage & overcurrent protection
Max. output current(per Ch.)	-	0.5A
Short circuit current(per Ch.)	-	1A
Max. output current(Total.)	-	8A
On-Resistance	-	0.3Ω(Type)/0.6Ω(Max.)
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	Profibus DP V0	Profibus DP V0
Connector	DB9Female	DB9Female
Transmission rate	9.6kbps~12Mbps, adaptive	-
Address config	00~99(config by 2-bit dial switch)	-
Installation	DIN Rail(TS35)	DIN Rail(TS35)
LED Indicate		
PWR	Green	Green
ERR	Red	Red
RUN	Orange	Orange
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	105×55×155	105×55×155

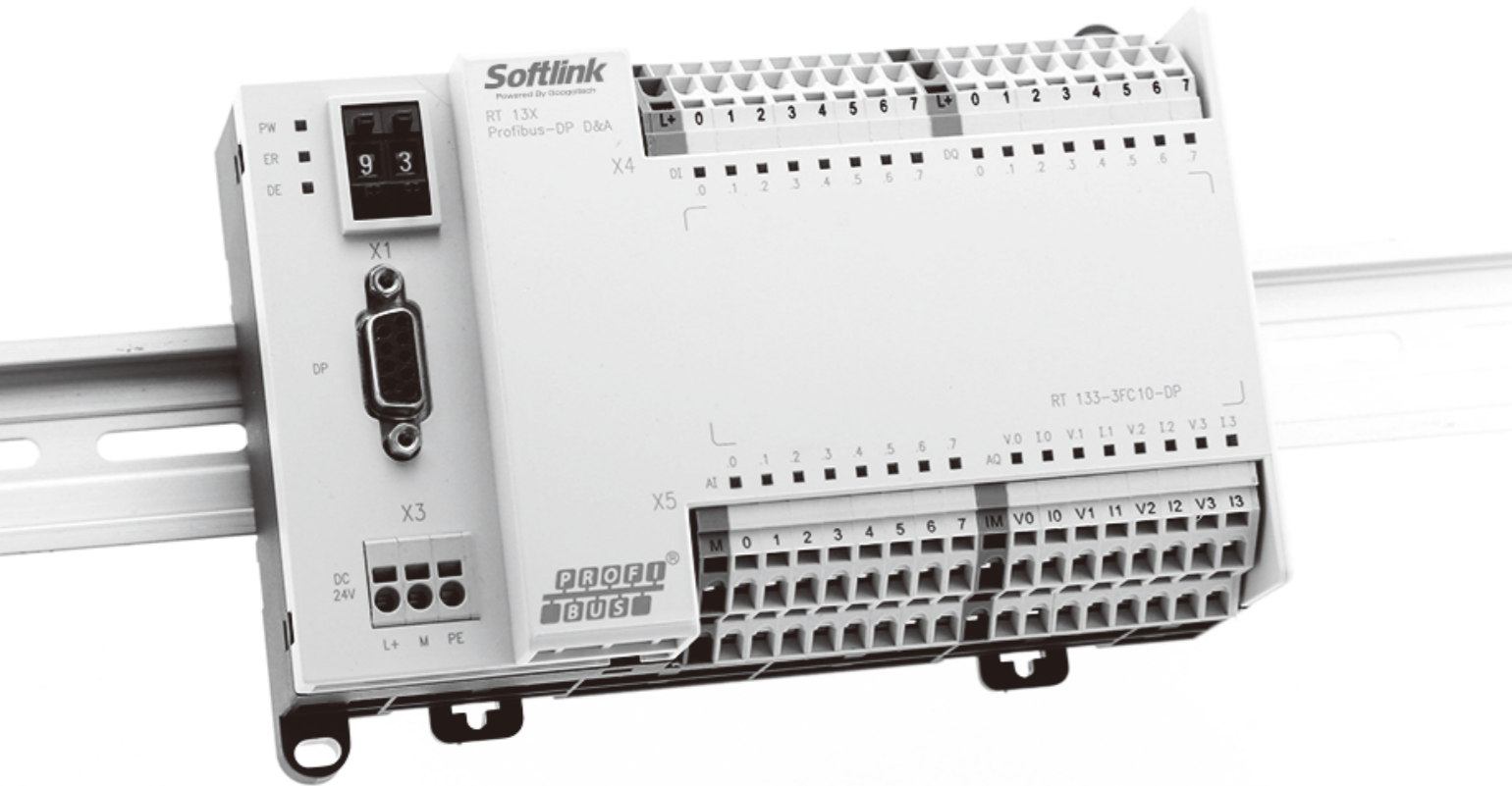
Order No.	RT133-1BH02-DP	RT133-1BL02-DP
Type	Digital I/O Module	Digital I/O Module
Digital Input		
Number of inputs	8	16
Input filter	0.5ms	0.5ms
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1 " signal voltage	15~30VDC,7mA	15~30VDC,7mA
"0 " signal voltage	0~5VDC	0~5VDC
Port protect		
Digital Output		
Number of inputs	8	16
Output Type	Mosfet	Mosfet
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1 " signal voltage	Open drain output	Open drain output
"0 " signal voltage	Max:1.5VDC,10kΩ Load	Max:1.5VDC,10kΩ Load
Port protect		
Max. output current(per Ch.)	0.5A	0.5A
Short circuit current(per Ch.)	1A	1A
Max. output current(Total.)	8A	8A
On-Resistance	0.3Ω(Type)/0.6Ω(Max.)	0.3Ω(Type)/0.6Ω(Max.)
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	Profibus DP V0	Profibus DP V0
Connector	DB9Female	DB9Female
Transmission rate	9.6kbps~12Mbps, adaptive	
Address config	00~99(config by 2-bit dial switch)	
Installation	DIN Rail(TS35)	DIN Rail(TS35)
LED Indicate		
PWR	Green	Green
ERR	Red	Red
RUN	Orange	Orange
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	105×55×155	105×55×155



Order No.	Product Description
RT133-1PL02-DP	Digital 16 Input/ 16 Output (Relay)
RT133-3FC00-DP	Digital 8 Input/ 8 Output (Mosfet) , Analog 8 Input/ 4 Output
RT133-3FC10-DP	Digital 8 Input/ 8 Output (Mosfet) , Analog 8 Input/ 4 Output
RT133-3KB00-DP	Digital 16 Input/ 8 Output (Mosfet) , Analog 4 Input

Order No.	RT133-1PL02-DP	RT133-3FC00-DP
Type	Digital I/O Module	Mixed Signal I/O Module
Digital Input		
Number of inputs	16	8
Input filter	0.5ms	0.5ms
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1" signal voltage	15~30VDC,7mA	-
"0" signal voltage	0~5VDC	-
Port protect	Impact over voltage protection	Impact over voltage protection
Digital Output		
Number of inputs	16	8
Output Type	Relay	Mosfet
Nominal input voltage	30 V DC/250V AC	24 V DC(-15%/+20%)
"1" signal voltage	Dry contact short circuit	Open drain output
"0" signal voltage	Dry contact open circuit	Max:1.5VDC,10kΩ Load
Max. output current(per Ch.)	-	Overvoltage & overcurrent protection
Short circuit current(per Ch.)	1A	0.5A
Max. output current(Total.)	2A	1A
On-Resistance	16A	8A
Port protect	≤50mΩ	0.3Ω(Type)/0.6Ω(Max.)
Analog Input		
Number of inputs	-	8
Signal Type	-	Single-ended voltage
Input impedance	-	> 200kΩ
Range	-	0~5V,0~10V,±1.25V,±2.5V,±5V,±10V
Resolutions	-	16bit
Total error	-	<±0.1%
Conversion rate	-	100kSPS/ch
Software filter	-	No
Analog Output		
Number of inputs	-	4
Output Range	-	0~10V or 0~20mA
Load	-	>5kΩ

Order No.	RT133-3FC10-DP	RT133-3KB00-DP
Type	Mixed Signal I/O Module	Mixed Signal I/O Module
Digital Input		
Number of inputs	8	16
Input filter	0.5ms	0.5ms
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1" signal voltage	-	-
"0" signal voltage	-	-
Port protect	Impact over voltage protection	Impact over voltage protection
Digital Output		
Number of inputs	8	8
Output Type	Mosfet	Mosfet
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1" signal voltage	Open drain output	Open drain output
"0" signal voltage	Max:1.5VDC,10kΩ Load	Max:1.5VDC,10kΩ Load
Max. output current(per Ch.)	0.5A	0.5A
Short circuit current(per Ch.)	1A	1A
Max. output current(Total.)	8A	8A
On-Resistance	0.3Ω(Type)/0.6Ω(Max.)	0.3Ω(Type)/0.6Ω(Max.)
Port protect	Overvoltage & overcurrent protection	Overvoltage & overcurrent protection
Analog Input		
Number of inputs	8	4
Signal Type	Current	Single-ended voltage
Input impedance	> 200kΩ	> 200kΩ
Range	0~20mA,±20mA	0~5V,0~10V,±5V,±10V,
Resolutions	16bit	12bit
Total error	<±0.1%	<±0.5%
Conversion rate	100kSPS/ch	100kSPS/ch
Software filter	No	No
Analog Output		
Number of inputs	4	-
Output Range	0~10V or 0~20mA	-
Load	>5kΩ	-



Order No.	RT133-1PL02-DP	RT133-3FC00-DP
Resolutions	-	16bit
Output error	-	<0.1%
Output settling time	-	~100 μs
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	Profibus DP V0	Profibus DP V0
Connector	DB9Female	DB9Female
Transmission rate	9.6kbps~12Mbps, adaptive	9.6kbps~12Mbps, adaptive
Address config	00~99(config by 2-bit dial switch)	00~99(config by 2-bit dial switch)
Installation	DIN Rail(TS35)	DIN Rail(TS35)
LED Indicate		
PWR	Green	Green
ERR	Red	Red
RUN	Orange	Orange
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	105×55×155	155×105×55

Order No.	RT133-3FC10-DP	RT133-3KB00-DP
Resolutions	16bit	-
Output error	<0.1%	-
Output settling time	~100μs	-
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	Profibus DP V0	Profibus DP V0
Connector	DB9Female	DB9Female
Transmission rate	9.6kbps~12Mbps, adaptive	9.6kbps~12Mbps, adaptive
Address config	00~99(config by 2-bit dial switch)	00~99(config by 2-bit dial switch)
Installation	DIN Rail(TS35)	DIN Rail(TS35)
LED Indicate		
PWR	Green	Green
ERR	Red	Red
RUN	Orange	Orange
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	155×105×55	155×105×55



Order No. Product Description

RT133-3HC10-DP Digital 8 Input/ 8 Output (Mosfet) , Analog 8 Input/ 4 Output
 RT133-3RJ00-DP Digital 8 Input/ 8 Output (Mosfet) , 4 Thermal Resistance

Order No.	RT133-3HC10-DP	RT133-3RJ00-DP
Type	Mixed Signal I/O Module	Temperature module
Digital Input		
Number of inputs	8	8
Input filter	0.5ms	0.5ms
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1" signal voltage	-	-
"0" signal voltage	-	-
Port protect	Impact over voltage protection	Impact over voltage protection
Digital Output		
Number of inputs	8	8
Output Type	Mosfet	Mosfet
Nominal input voltage	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1" signal voltage	Open drain output	Open drain output
"0" signal voltage	Max:1.5VDC,10kΩ Load	Max:1.5VDC, 10kΩ Load
Max. output current(per Ch.)	0.5A	0.5A
Short circuit current(per Ch.)	1A	1A
Max. output current(Total.)	8A	8A
On-Resistance	0.3Ω(Type)/0.6Ω(Max.)	0.3Ω(Type)/0.6Ω(Max.)
Port protect	Overvoltage & overcurrent protection	
Analog Input		
Number of inputs	8	4
SignalType	Current	Thermal resistance,PT100,PT200,PT500,PT1000,Ni100,Ni120,Ni1000
Input impedance	> 200kΩ	-
Range	0~20mA,±20mA	100Ω...200kΩ
Resolutions	12bit	24bit,0.001°C
Total error	<±0.5%	<±0.05%Full scale
Conversion rate	100kSPS/ch	250mS/4ch
Software filter	No	0x,1x,2x,3x,4xYes
Others	-	50/60Hz filter, breakwire instructions
Analog Output		
Number of inputs	4	-
Output Range	0~10V or 0~20mA	-

Order No.	RT133-3HC10-DP	RT133-3RJ00-DP
Load	>5kΩ	-
Resolutions	12bit	-
Output error	<0.5%	-
Output settling time	~100μs	-
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	Profibus DP V0	Profibus DP V0
Connector	DB9Female	DB9Female
Transmission rate	9.6kbps~12Mbps, adaptive	9.6kbps~12Mbps, adaptive
Address config	00~99(config by 2-bit dial switch)	00~99(config by 2-bit dial switch)
Installation	DIN Rail(TS35)	DIN Rail(TS35)
LED Indicate		
PWR	Green	Green
ERR	Red	Red
RUN	Orange	Orange
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	155×105×55	155×105×55



Order No.	Product Description	
RT133-4TJ00-DP	Digital8 Input/8 Output (Mosfet) , 4 Thermocouple	
RT131-4RH00-DP	16Thermal Resistance	
RT131-4TH00-DP	16 Thermocouple	
Order No.	RT133-4TJ00-DP	RT131-4RH00-DP
Type	Temperature module	Temperature module
Digital Input		
Number of Inputs	8	-
Input filter	0.5ms	-
Nominal input voltage	24 V DC(-15%/+20%)	-
"1" signal voltage	-	-
"0" signal voltage	-	-
Port protect	Impact over voltage protection	-
Digital Output		
Number of Inputs	8	-
Output Type	Mosfet	-
Nominal input voltage	24 V DC(-15%/+20%)	-
"1" signal voltage	Open drain output	-
"0" signal voltage	Max:1.5VDC,10kΩ Load	-
Max. output current(per Ch.)	0.5A	-
Short circuit current(per Ch.)	1A	-
Max. output current(Total.)	8A	-
On-Resistance	0.3Ω(type)/0.6Ω(Max.)	-
Port protect	overvoltage & overcurrent protection	-
Analog Input		
Number of Inputs	4	16
Signal Type	All type of thermocouple sensor	RTD,PT100,PT200,PT500,PT1000,Ni100,Ni120,Ni1000
Input impedance	> 100kΩ	-
Range	±100mV	100Ω...200kΩ
Resolutions	24bit,0.001°C	24bit, 0.001°C
Total error	<±0.05%Full scale	<±0.05%Full scale
Conversion rate	250mS/4ch	1000mS/8ch
Software filter	0x,1x,2x,3x,4xadjustable	0x,1x,2x,3x,4xadjustable
Others	50/60Hz filter,cold junction compensation	50/60Hz filter
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	Profibus DP V0	Profibus DP V0

Order No.	Product Description	
RT133-4TJ00-DP	Digital8 Input/8 Output (Mosfet) , 4 Thermocouple	
RT131-4RH00-DP	16Thermal Resistance	
RT131-4TH00-DP	16 Thermocouple	
Order No.	RT131-4TH00-DP	
Type	Temperature module	
Digital Input		
Number of Inputs	-	
Input filter	-	
Nominal input voltage	-	
"1" signal voltage	-	
"0" signal voltage	-	
Port protect	-	
DigitalOutput		
Number of Inputs	-	
Output Type	-	
Nominal input voltage	-	
"1" signal voltage	-	
"0" signal voltage	-	
Max. output current(per Ch.)	-	
Short circuit current(per Ch.)	-	
Max. output current(Total.)	-	
On-Resistance	-	
Port protect	-	
Analog Input		
Number of Inputs	16	
Signal Type	All type of thermocouple sensor	
Input impedance	> 100kΩ	
Range	±100mV	
Resolutions	24bit, 0.001°C	
Total error	<±0.05%Full scale	
Conversion rate	1000mS/8ch	
Software filter	0x,1x,2x,3x,4xadjustable	
Others	50/60Hz filter,cold junction compensation	
Voltage supply	24 V DC(-15%/+20%)	
Electrical isolation(Bus/Field potential)	AC 500V	
Protocol	Profibus DP V0	



Order No.	RT133-4TJ00-DP	RT131-4RH00-DP
Connector	DB9Female	DB9Female
Communication Rate	9.6kbps~12Mbps, adaptive	9.6kbps~12Mbps, adaptive
Address config	00~99(config by 2-bit dial switch)	00~99(config by 2-bit dial switch)
Fixed method	DIN Rail(TS35)	DIN Rail(TS35)
LED Indicate		
PWR	Green	Green
ERR	Red	Red
DE Data exchange	Orange	Orange
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	155×105×55	155×105×55

Order No.	RT131-4TH00-DP
Connector	DB9Female
Communication Rate	9.6kbps~12Mbps, adaptive
Address config	00~99(config by 2-bit dial switch)
Fixed method	DIN Rail(TS35)

PWR	Green
ERR	Red
DE Data exchange	Orange
Digital I/O	Green
Dimensions(W/H/D,mm)	155×105×55

Order No.	Product Description	Order No.	Product Description
RT131-1BL00-PN	Digital32 Input	RT133-1BL00-PN	Digital16 Input/16 Output (Mosfet)
RT132-1BL00-PN	Digital32 Output (Mosfet)	RT133-1PL00-PN	Digital16 Input/16 Output (Relay)

Order No.	RT131-1BL00-PN	RT132-1BL00-PN
Type	DigitalInput Module	DigitalOutput Module

Digital Input		
Number of Inputs	32	0
Input filter	0.5ms	-
Nominal input voltage	24 V DC(-15%/+20%)	-
"1" signal voltage	15~30VDC,7mA	-
"0" signal voltage	0~5VDC	-
Port protect	Impact over voltage protection	-

Digital Output		
Number of Inputs	0	32
Output Type	-	Mosfet
Nominal input voltage	-	24 V DC(-15%/+20%)
"1" signal voltage	-	Open drain output
"0" signal voltage	-	Max:1.5VDC,10kΩ Load
Max. output current(per Ch.)	-	0.5A
Short circuit current(per Ch.)	-	1A
Max. output current(Total.)	-	8A*2
On-Resistance	-	0.3Ω(type)/0.6Ω(Max.)
Port protect	-	Over voltage & overcurrent protection
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	PROFINET IO IRT	PROFINET IO IRT
Connector	2 x RJ45	2 x RJ45
Communication Rate	100 Mbps full duplex	100 Mbps full duplex
Address config	MAC+IP	MAC+IP
Fixed method	DIN Rail(TS35)	DIN Rail(TS35)
Fixed method	T.B.D	T.B.D

LED Indicate		
PWR	Green	Green
BFBus failure	Red	Red
SFSystem failure	Red	Red
MTMaintain	Orange	Orange