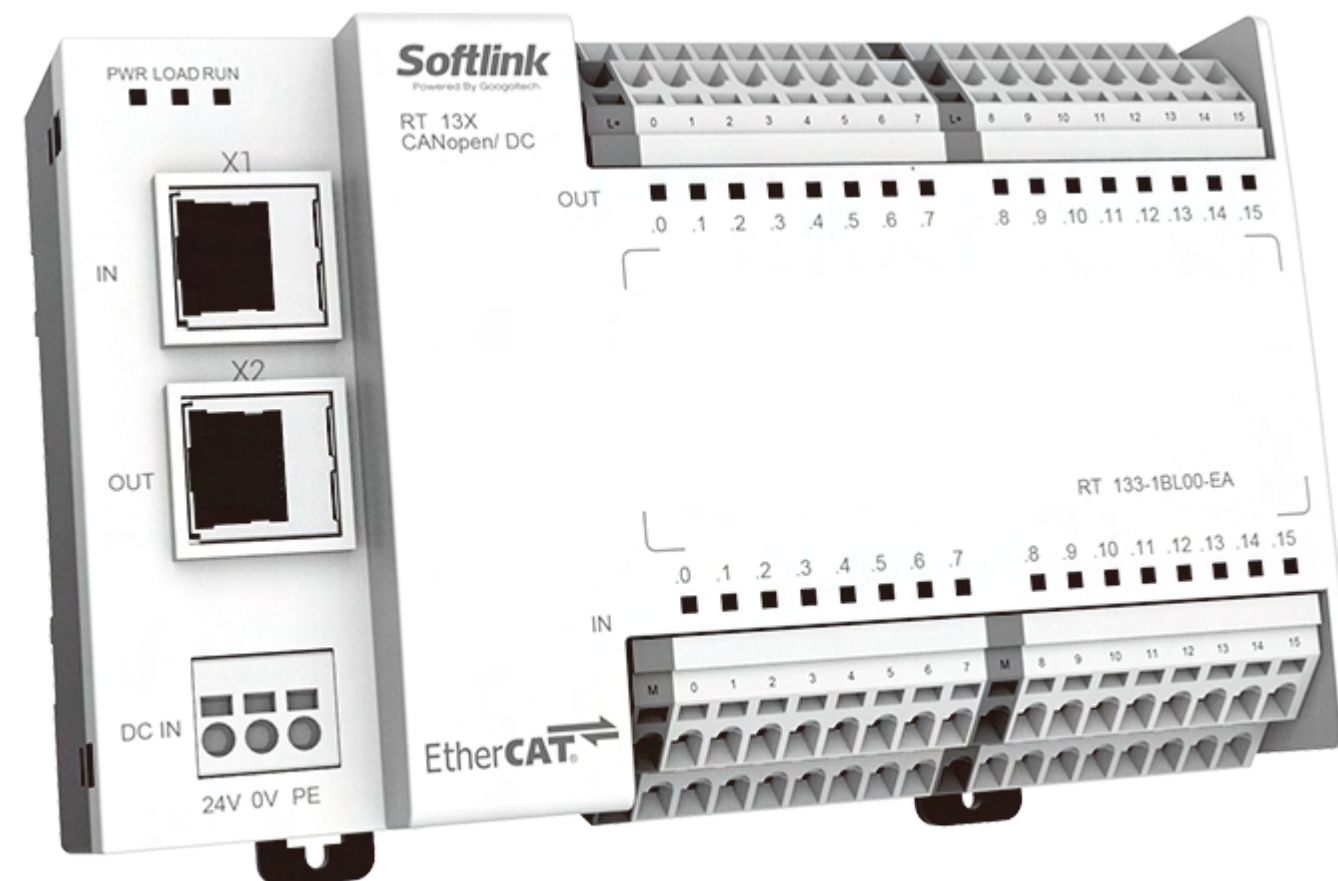




Order No.	Product Description	Order No.	Product Description
RT131-1BL00-EA	Digital 32 Input	RT133-1BL00-EA	Digital 16 Input /16 Output ( Mosfet )
RT132-1BL00-EA	Digital 32 Output (Mosfet )	RT133-1PL00-EA	Digital 16 Input /16 Output ( Relay )

Order No.	RT131-1BL00-EA	RT132-1BL00-EA	RT133-1BL00-EA	RT133-1PL00-EA
Type	Digital Input Module	Digital Output Module	Digital I/O Module	Digital I/O Module
<b>Digital Input</b>				
Number of inputs	32	0	16	16
Input filter	0.5ms	-	0.5ms	0.5ms
Nominal Input Voltage	24 V DC(-15%/+20%)	-	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
"1" signal voltage	15~30VDC,7mA	-	15~30VDC,7mA	15~30VDC,7mA
"0" signal voltage	0~5VDC	-	0~5VDC	0~5VDC
Port protect	Impact over Voltage protection	-	Impact over Voltage protection	Impact over Voltage protection
<b>Digital Output</b>				
Number of outputs	0	32	16	16
Output type	-	Mosfet	Mosfet	Relay
Nominal output voltage	-	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)	30 V DC/250V AC
"1" signal voltage	-	Open drain output	Open drain output	Dry contact short circuit
"0" signal voltage	-	Max:1.5VDC,10kΩ Load	Max:1.5VDC,10kΩ Load	Dry contact open circuit
Max. output current(per Ch.)	-	0.5A	0.5A	1A
Short circuit current(per Ch.)	-	1A	1A	2A
Max. output current(Total.)	-	8A*2	8A	16A
On-Resistance	-	0.3Ω(Type)/0.6Ω(Max)	0.3Ω(Type)/0.6Ω(Max)	≤50mΩ
Port protect	-	Overvoltage & overcurrent	-	-
Total error	-	-	-	-
Output settling time	-	-	-	-
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation (Bus/Field potential)	AC 500V	AC 500V	AC 500V	AC 500V
Protocol	EtherCAT	EtherCAT	EtherCAT	EtherCAT
Connector	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45
Transmission rate	100 Mbps	100 Mbps	100 Mbps	100 Mbps
Address config	Automatic scanning	Automatic scanning	Automatic scanning	Automatic scanning
Distributed clocks	No	No	No	No
Installation	DIN Rail (TS35)	DIN Rail (TS35)	DIN Rail (TS35)	DIN Rail (TS35)
<b>LED Indicate</b>				
PWR	Green	Green	Green	Green
LOAD	Green	Green	Green	Green



Order No.	RT131-1BL00-EA	RT132-1BL00-EA	RT133-1BL00-EA	RT133-1PL00-EA
RUN	Green	Green	Green	Green
ERR	-	-	-	-
Digital I/O	Green	Green	Green	Green
Dimensions(W/H/D,mm)	155×105×55	155×105×55	155×105×55	155×105×55

**Order No. Product Description**

RT133-3FC00-EA Digital 8 Input/8 Output ( Mosfet ) , Analog 8 Input/4 Output  
 RT133-3FC10-EA Digital 8 Input/8 Output ( Mosfet ) , Analog 8 Input/4 Output

Order No.	RT133-3FC00-EA	RT133-3FC10-EA
Type	Mixed Signal I/O Module	Mixed Signal I/O Module
<b>Digital Input</b>		
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	15~30VDC,7mA	15~30VDC,7mA
"0" signal voltage	0~5VDC	0~5VDC
Port protect	Impact over voltage protection	Impact over voltage protection
<b>Digital Output</b>		
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.)	4A	4A
On-Resistance	0.3Ω(Type)/0.6Ω(Max.)	0.3Ω(Type)/0.6Ω(Max.)
Port protect	overvoltage & overcurrent protection	overvoltage & overcurrent protection
<b>Analog Input</b>		
Number of inputs	8	8
Signal Type	Single-ended Voltage	Single-ended Current
Input impedance	> 200kΩ	249Ω
Range	0~5V,0~10V,±1.25V,±2.5V,±5V,±10V	4~20mA,0~20mA,+/-20mA
Resolutions	16bit	16bit
Total error	<±0.1%	<±0.1%
Conversion rate	100kSPS/ch	100kSPS/ch
<b>Analog Output</b>		
Number of inputs	4 (Voltage or Current )	4 (Voltage or Current )
Range	Voltage : 0~5V, 0~10V, +/-5V, +/-10V Current : 4~20mA, 0~20mA	Voltage : 0~5V, 0~10V, +/-5V, +/-10V Current : 4~20mA, 0~20mA
On load capacity	Voltage : ≥1kΩ ; Current : ≤500Ω	Voltage : ≥1kΩ ; Current : ≤500Ω

Order No.	RT133-3FC00-EA	RT133-3FC10-EA
Resolutions	16bit	16bit
Output error	<0.1 %	<0.1%
Output settling time	~ 100μs	~ 100 μs
Voltage supply	24 V DC(-15%/+20%)	24 V DC(-15%/+20%)
Electrical isolation(Bus/Field potential)	AC 500V	AC 500V
Protocol	EtherCAT	EtherCAT
Connector	2 x RJ45	2 x RJ45
Transmission rate	100 Mbps	100 Mbps
Address config	Automatic scanning	Automatic scanning
Distributed clocks	T.B.D.	T.B.D.
Installation	DIN Rail(TS35)	DIN Rail(TS35)
<b>LED Indicate</b>		
PWR	Green	Green
LOAD	Green	Green
RUN	-	-
ERR	Red	Red
Digital I/O	Green	Green
Dimensions(W/H/D,mm)	155×105×55	155×105×55