

# Rtelligent RE-0032 Quick Start Guide

Thank you for using the Rtelligent RE-0032 expansion module !

This operation manual provides relevant information on RE-0032 expansion module.

Before use, please carefully read the relevant content of the manual to ensure correct use!

- Before wiring the product, the user should carefully understand the terminal definition, as incorrect wiring may cause hardware damage.
- Please insulate the connection part of the power terminal, otherwise it may cause electric shock.
- Do not set up, disassemble, or repair unless designated personnel are present, as this may result in electric shock or injury.
- Do not remove the cover, cables, connectors, and optional accessories while powered on, as this may cause electric shock.
- Please take measures to ensure that restarting does not endanger personal safety, otherwise it may result in injury.
- Please never modify this product, as it may cause injury or mechanical damage.
- Do not install in environments with corrosive, flammable gases, high temperatures, humidity, dust, or metal dust.
- To ensure good heat dissipation conditions, large intervals should be left as much as possible during actual installation.
- For industrial control environments with severe interference, shielded cables should be used for high-frequency input and output IO ports.

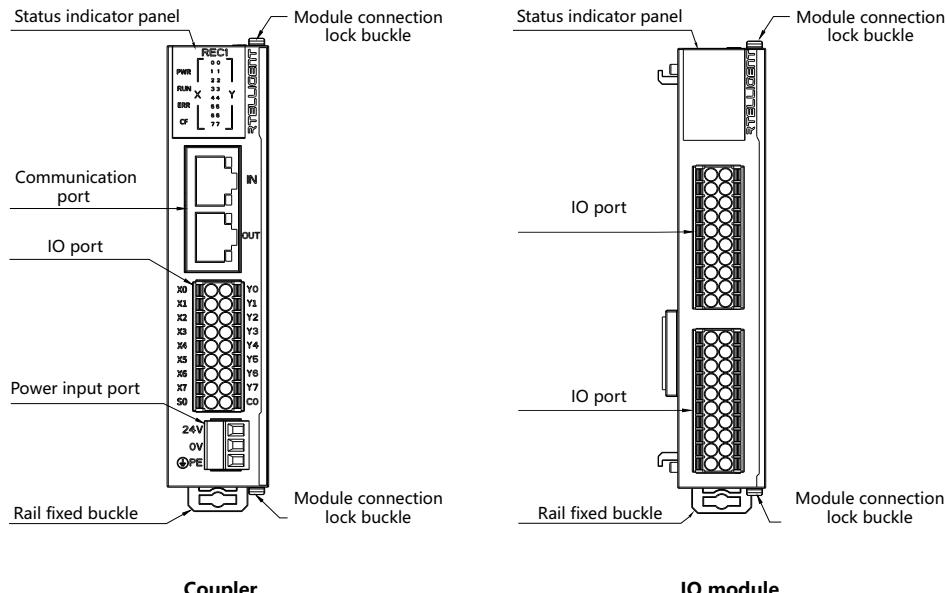
## Product Information

RE - 00 32 - N

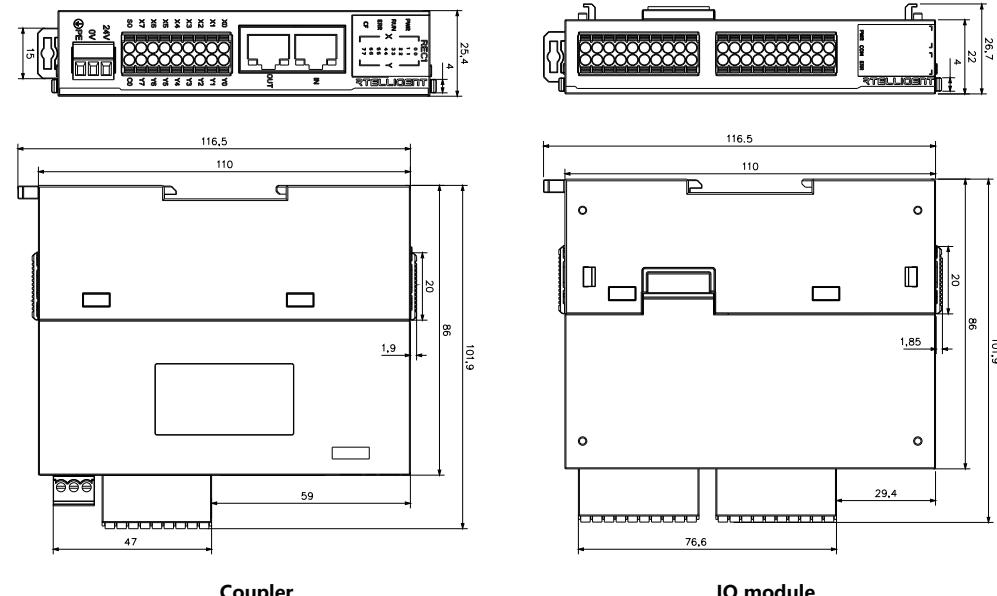
- ① RE: Remote expansion module
- ② 00: Digital input I/O count
- ③ 32: Digital output I/O count
- ④ N: NPN P: PNP

- The expansion module comes with an IO action indicator panel
- Digital input I/O terminal voltage range: 18V to 30V
- 32 digital outputs polarity is selectable
- Isolation mode: optocoupler isolation

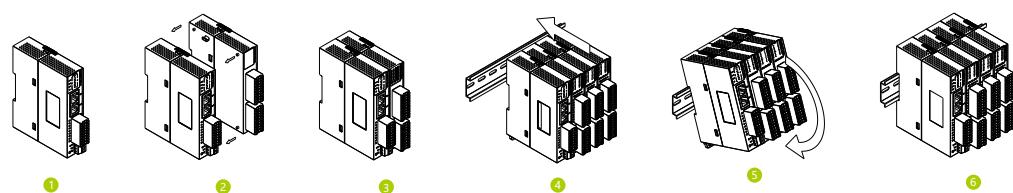
## Product Diagram



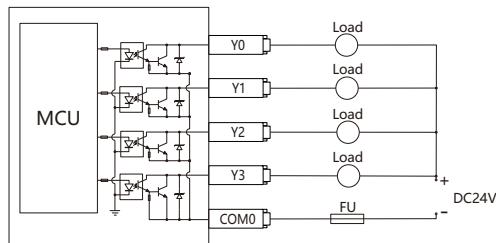
## Product Dimension



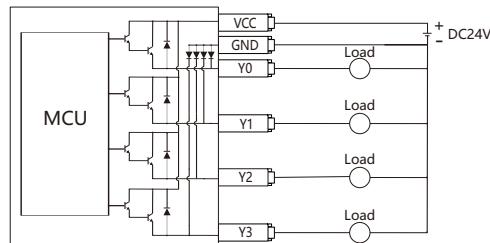
## Installation Guide



## Wiring Diagram



NPN output interface



PNP output interface

## Panel Indicator

Indicator	Function	Status Description
PWR	Power LED	Steady ON: Module powered normally
COM	Online LED	Steady ON: Module online (normal communication) OFF: Disconnected
ERR	Alarm LED	OFF: Normal Blinking: Alarm condition

## PDO Parameter Description

PDO Type	PDO Name	Size
PDO output	Digital output CH1-8bit	8bit
	Digital output CH2-8bit	8bit
	Digital output CH3-8bit	8bit
	Digital output CH4-8bit	8bit
	Output mode after lost link	32bit
	Output value after lost link	32bit

### • Digital output CH1-8bit

Digital output PDO, if the corresponding bit is 1, the optocoupler of the output port will conduct, and if 0, it will not conduct.

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0

### • Digital output CH2-8bit

Digital output PDO, if the corresponding bit is 1, the optocoupler of the output port will conduct, and if 0, it will not conduct

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Y17	Y16	Y15	Y14	Y13	Y12	Y11	Y10

### • Digital output CH3-8bit

Digital output PDO, if the corresponding bit is 1, the optocoupler of the output port will conduct, and if 0, it will not conduct

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Y27	Y26	Y25	Y24	Y23	Y22	Y21	Y20

### • Digital output CH4-8bit

Digital output PDO, if the corresponding bit is 1, the optocoupler of the output port will conduct, and if 0, it will not conduct

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Y37	Y36	Y35	Y34	Y33	Y32	Y31	Y30

### • Output mode after lost link (32bit)

Digital output IO mode configuration:

When the corresponding bit is 0 (Mode 0): The device alarm I/O maintains its original output.  
When the corresponding bit is 1 (Mode 1): The device alarm I/O output follows the "Output value after lost link" setting. Default "Output mode after lost link": 0.

Bit31-Bit24	Bit23 ~ Bit16
Y37-Y30	Y27 ~ Y20
Bit15-Bit8	Bit7 ~ Bit0
Y17-Y10	Y7 ~ Y0

### • Output value after lost link (32bit)

When operating in Mode 1, the device alarm I/O output will follow the "Output value after lost link" parameter setting. Default value: "Output value after lost link" = 0

Bit31-Bit24	Bit23 ~ Bit16
Y37-Y30	Y27 ~ Y20
Bit15-Bit8	Bit7 ~ Bit0
Y17-Y10	Y7 ~ Y0