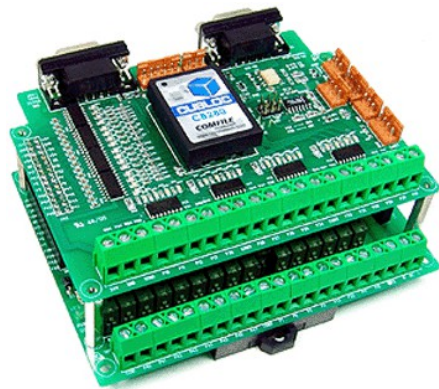


# CUSB-36R User's Manual



Thank you for your purchase from Comfile Technology

Before making use of this product please be sure to read and observe all safety precautions.

## ◆ Safety Precautions

Please be sure to observe all safety precautions to avoid accident or injury.

※ The following precautions are separated into "Warning" and "Caution", and are defined as follows.

**Warning:** Failure to adhere to this precaution could result in personal injury or death.

**Caution:** Failure to adhere to this precaution could result in minor injury or property damage.

※ Symbols used in this document have the following meanings  
Danger and potential for serious injury.

### Warning

1. For instruments with risk to life or property (e.g. nuclear power control, medical equipment, vehicles, railways, aviation, combustion equipment, recreation equipment, safety devices, etc.), always employ adequate fail-safe mechanisms.

– Risk of fire, personal injury, and/or property damage.

2. Always mount to a panel.

– Risk of electric shock.

3. Do not attempt to repair, inspect, or wire while power is applied.

– Risk of electric shock.

4. Do not attempt to alter or repair. Refer to a qualified technician.

– Risk of electric shock.

5. Confirm all electrical connections

– Risk of fire

### Caution

1. Do not use outdoors.

– Risk of electric shock and shortening of product's life.

2. Always use the product within its specifications and ratings.

– Risk of fire and shortening of product's life.

3. Do not exceed ratings of relay switching contacts.

– Risk of device failure, melting of contacts, broken relays, fire, and other problems.

4. Do not use in environments with flammable or explosive materials, moisture, direct sunlight, radiation, vibration and/or shock.

– Risk of fire and/or electric shock.

5. Keep product free of dust and debris.

– Risk of fire and/or damage to property

6. Make connections correctly and confirm polarity by measuring at the appropriate terminals

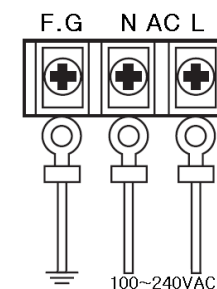
– Risk of fire and/or explosion

## ◆ Specifications

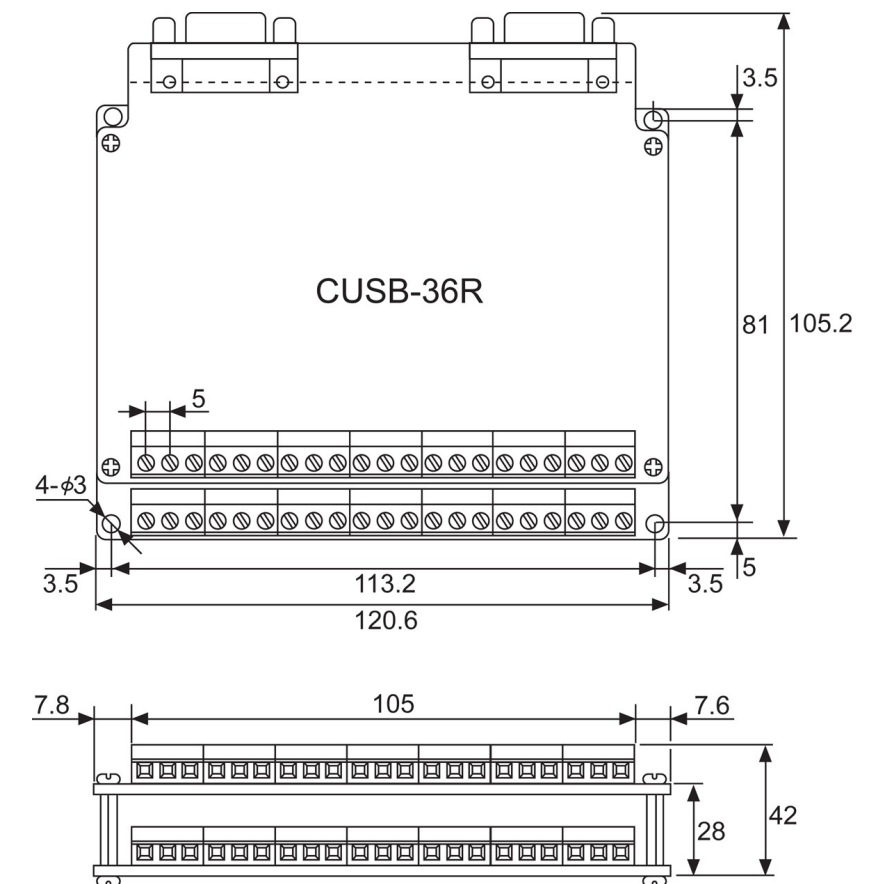
MODEL	CUSB-36R
Input Power Voltage	100~240VAC (Universal Input 85V~264VAC)
Input Power Current	100VAC/40mA, 200VAC/32mA
Internal Output Power	5V/1000mA, 24V/500mA
Application CPU	CB280
Program Memory	80KB
Data Memory	BASIC ; 2KB / LADDER ; 1KB
EEPROM Memory	4KB
Digital Input Port	Opto-Isolated Input and Output (+/- Nonpolar)
D/I Voltage-Current	9V~26VDC / Min10mA
D/I Port Numbers	16Point
Analog Input Port	2 Point CN15 (Input Voltage 5V)
High Count Port	2 Point ( Input voltage 12V ~ 24V )
Key Board Port	4Point (Application of Keypad)
Digital Output Port	16 Point
D/O Voltage-Current	0~250VAC/5A , 0~30VDC / 5A
D/O Port Numbers	16Point
PWM Output	2CH
Insulation-Resistance	Input-Output : DC500V, 1Min 100MΩ Cut Off Current 10mA
	Input-FG : DC500V, 100MΩ, 1Min Cut Off Current 10mA
Withstanding-Voltage	Input-Output : AC 2000V 1Min Cut Off Current 10mA DC500V 100MΩ
	Input-FG : AC 1500V 1Min Cut Off Current 10mA, DC500V 100MΩ
	Output-FG : AC 500V 1Min Cut Off Current 10mA, DC500V 100MΩ
Vibration	10~50Hz at 2G 3 minutes period, 30 minutes along X,Y and Z axis
Impact	10G for 20mS, Once on each X,Y and Z axis
Impact	-10℃~50℃
Operating Temperature	10%~95% RH (Non-condensing)
Humidity	RS232 / RS485 Built-in 1 Channel(RS232 or RS485)
Size & Weight	120 x 109 x 51.5 mm, 301g

## ◆ Power Connections

- Use at least 0.75mm diameter wires for power and at least 1.25mm diameter for ground.
- If possible, use crimped flat-type terminal connectors.
- Do not connect power while power is on.
- Path to ground should be less than 100Ω and all equipment should be individually grounded.

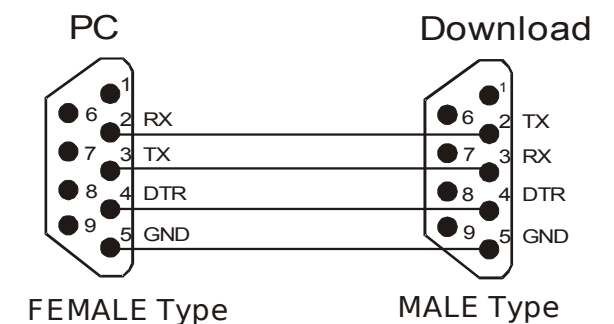


## ◆ Dimensions (mm)



## ◆ Download Cable Connection

Interface	RS-232
Baud Rate	2400 ~ 230400 (115200 when downloading)
Duplex	Full Duplex
Transmission Distance	15m
Transmission Code	Binary
Transmission Format	Top Bits: 1, Parity: None, Data Bits: 8
Transmission Sequence	According to RS232C
Connection	D-Sub 9-pin

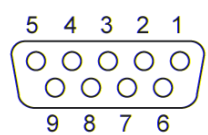


[Download Wiring Diagram]

▶ I/O

▶ [CN2]

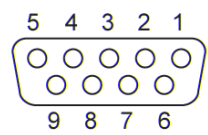
Download Port	Pins
1	Not used
2	TX
3	RX
4	DTR
5	GND
6	Not used
7	Not used
8	Not used
9	VCC (5V)



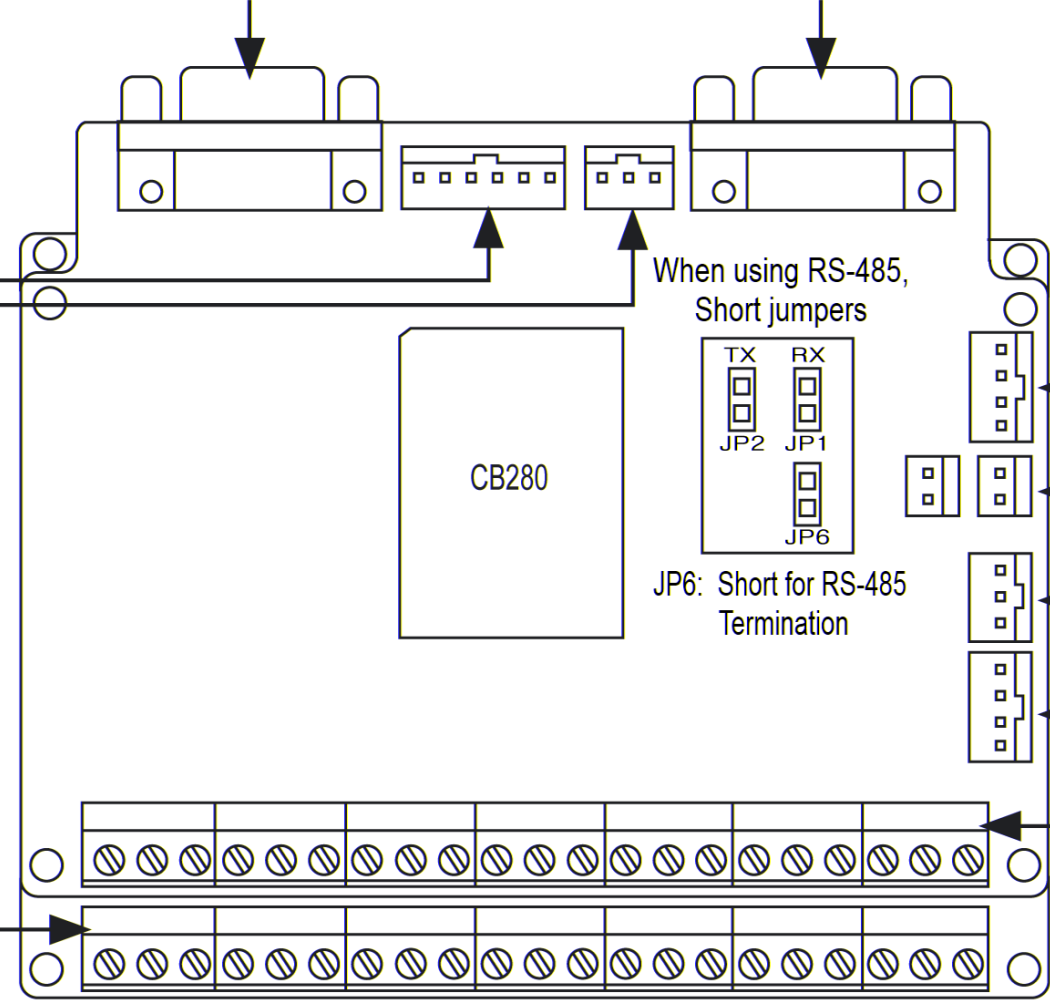
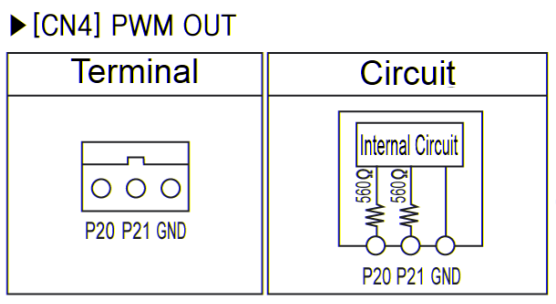
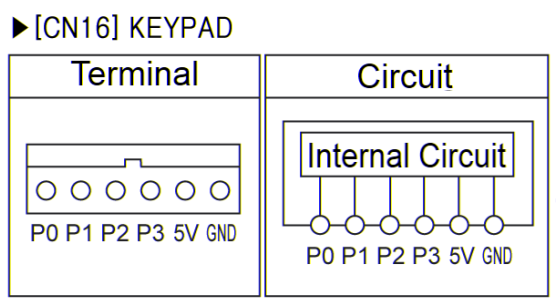
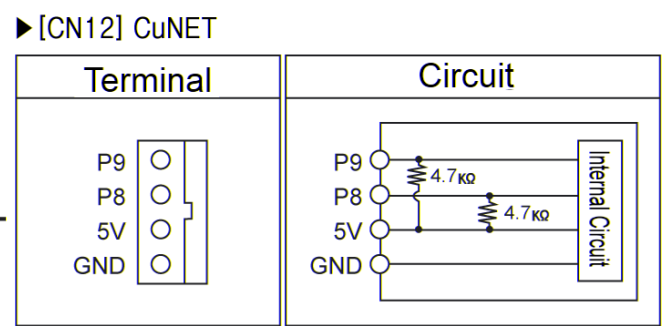
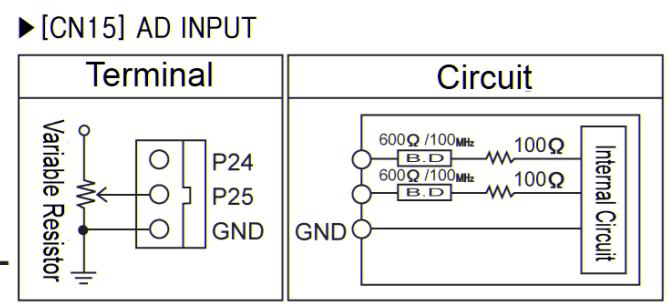
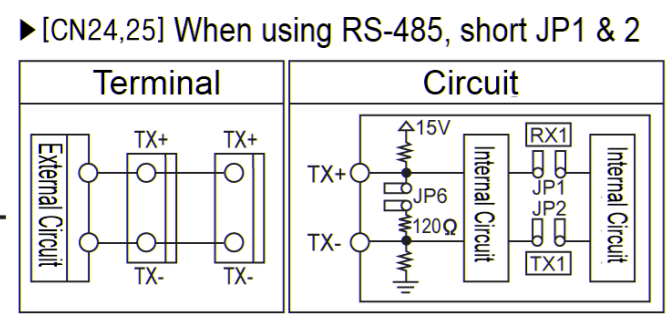
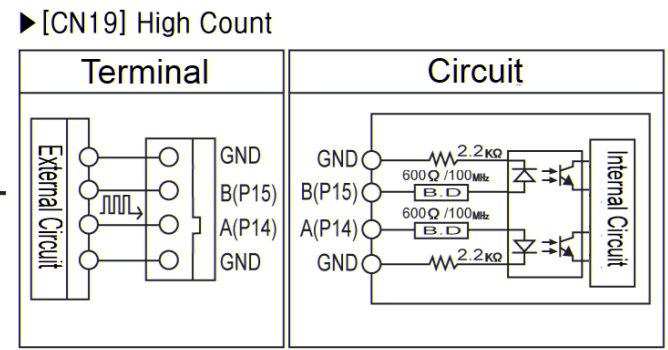
D-Sub 9Pin

▶ [CN1] When using RS-232, open JP1 & 2)

RS-232 Comm. Port	Pins
1	Not used
2	TX1
3	RX1
4	Not used
5	GND
6	Not used
7	Not used
8	Not used
9	VCC (5V)



D-Sub 9Pin



▶ OUTPUT

▶ INPUT

