

# C805 OpenWRT RS-485 DI/DO Gateway

## Product Specification

Version	Issue date	Changes	Remark
0.1	2019/06/10	Initial Version	
1.0	2024/11/26	Update tables for different interfaces	

### IMPORTANT

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## *1 Introduction*

C805 is a general-purpose air condition controller supporting multi-functions for different applications :

C805 major applications:

- Air conditioner sensor and controller
- RS485 based industrial controller
- Ethernet/Wi-Fi RS485 gateway

## *2 Major Features and Specifications*

- Wi-Fi 802.11 b/g/n
- Ethernet 10M/100M
- USB host
  - ◆ High Speed 480Mbps
- IR remote controller input/output
  - ◆ Support IR remote controller learning mode
- Optical isolated RS-485
  - ◆ 1 Master
  - ◆ 1 Slave
- Optical isolated IO
  - ◆ 1 DI
  - ◆ 1 DO
- Temperature sensor
- Humidity sensor
- Current sensor

## *3 IO Interfaces*

### *3.1 C805 LED indicators*



Picture 1 : C805 front view

Name	Function
<b>POWER</b>	The LED light indicate the power is ON.
<b>NET</b>	The LED light indicate internet is working.
<b>DATA</b>	The LED light indicate data transmitting.
<b>IR</b>	The LED light indicate IR receiver/transmitter working.
<b>DO</b>	The LED shows the relay output status.

Table 1: LED indicators of C805

### 3.2 C805 right side interfaces



Picture 2 : C805 right side view

Name	Description
AC	Connect to AC, 100 ~ 240 V, 47~63 Hz AC input
WAN	Connect to RJ45 of internet cable.
USB	The outlet can insert USB storage device for user application.
IR_OUT	Insert 3.5mm IR plug cable for transmitting.
IR_IN	This window receives the IR signal.
DI/PIR	This connector can wire to PIR motion sensor.

Table 2: Right side interfaces

### 3.3 C805 bottom side interfaces



Picture 3 : C805 bottom view

Name	Description	
DO/RELAY	NO.	Normal open contact output.
	COM	Common contact output.
	NC.	Normal close contact output.
TR Switch	TR#1	Terminal resister switch for RS-485 Master (ON: effective)
	TR#2	Terminal resister switch for RS-485 Slave (ON: effective)
RS485 Slave	A2	Connect to 485 A/+ signal
	B2	Connect to 485 B/- signal
	GND	The ground of RS485
RS485 Master	A1/TX	Internal jumper selected as 485(+) or TX(UART) signal
	B1/RX	Internal jumper selected as 485(-) or RX(UART) signal
	GND	The ground of RS485

Table 3: Bottom side interfaces

### 1.1 C805 left side interfaces



Picture 4 : C805 left view

Name	Description	
Wi-Fi	Connect to WIFI Antenna.	
RESET	Depress long time on this switch reset to system default value.	
WPS	The WPS button	
Humidity & Temperature & Current sensor	+5V	+5V output for Humidity sensor.
	RH.	The input point of Humidity sensor.
	GND	The ground of Humidity sensor.
	TEMP	The input of temperature sensor.
	GND	The ground of temperature sensor.
	CT#1	The current sensor input #1 (switchable)
	CT#2	The current sensor input #2 (switchable)

Table 4: Left side interfaces