

# 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
POWER	The LED light indicate the power is ON.
NET	The LED light indicate internet is working.
DATA	The LED light indicate data transmitting.
IR	The LED light indicate IR receiver/transmitter working.
DO	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