Model: UT-9061A

(Product Name: WIFI to RS-232/485/422 Converter)

Datasheet

1. Overview

UT-9061A is a wireless WIFI converter, which can realize the conversion between user RS-232, RS-485, RS-422 and wireless network (WIFI) interface. Data conversion adopts isolation technology, which effectively guarantees the reliability of the product. With a variety of conversion modes, it supports AT commands + WEB interface settings, and realizes simple interconnection between wired and wireless networks for user equipment. With a certain anti-surge protection, it is widely used in the fields of data communication and industrial automation.

2. Technical parameters

- Operating Voltage: DC 12-36V
- Operating current: 200mA@12Vmax
- Operating humidity: 5% to 95% (no condensation)
- Operating temperature: -40～85℃
- Storage temperature: -40～85℃
- Storage humidity: 5% to 95% (no condensation)
- Surge protection: power supply, differential mode 1KV, common mode 2KV (1.2/50uS)

  Signal, RS-485/422: differential mode 1KV, common mode 2KV (10/700uS)

  RS-232: 600W
- Static protection: contact 6kV, air 8kV
- Communication interface: RS-232/RS-485/RS-422
- Communication rate: 300-921600bps
- Working mode: integrated transceiver, asynchronous half-duplex, asynchronous full-duplex
- Antenna impedance: 50Ω (glue stick antenna)
- Dimensions: 97x65x22mm±1 (without antenna)
- Support 802.11b/g/n wireless standard
- Support wireless work in STA/AP/AP+STA mode
- Support heartbeat signal, WIFI connection indication
- Provide Web configuration page + AT command

3. Indicator light

Definition	Color	Name	Description
PWR	Red	Power indicator	On when the power supply is normal.
nLink	Green	Wireless connection indicator	On when there is a device connected
nReady	Green	Working status indicator	On means successful startup
TXD	Green	Serial port sending indicator	Flashing when sending data
RXD	Yellow	Serial port receiving indicator light	Flashing when receiving data

Note: When the device is a version with GPS, ANT/S stands for GPS signal indicator light.

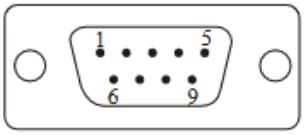
5. Pin definition

Reset: restart button

Reload: Restore factory settings button (press and hold for 3 seconds and then release)

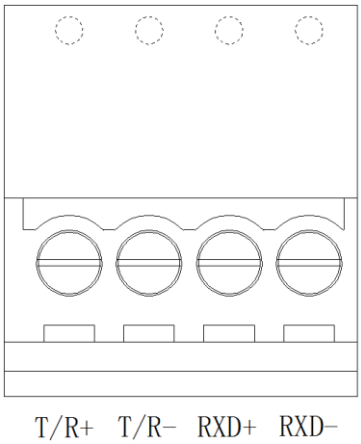
1. RS-232 pin map:

DB9 male



Pin No.	Signal	Description
2	RXD	RS-232 Receive
3	TXD	RS-232 transmit
5	GND	signal ground
7	RTS	send request
8	CTS	clear send
1、4、6、9	NC	dangling

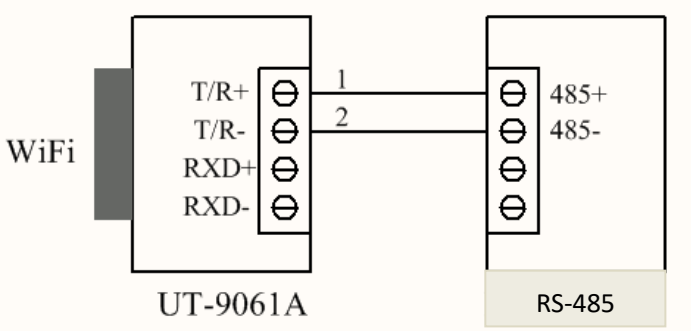
2. RS-485/422 pin map:



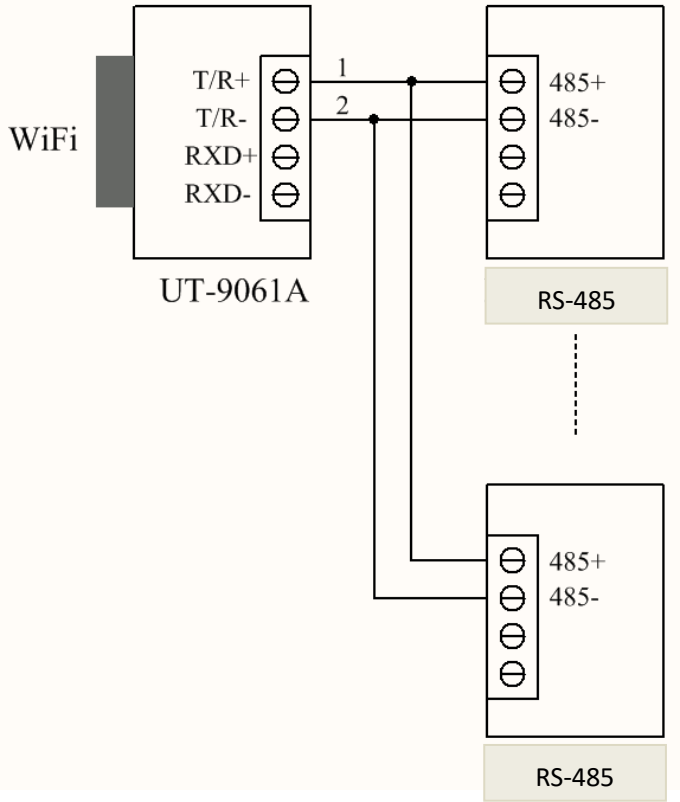
Pin No.	Signal	Description
1	T/R+	485+, 422 Transmit+
2	T/R-	485-, 422 Transmit-
3	RXD+	422 Receive+
4	RXD-	422 Received -

6. Diagram of communication connection

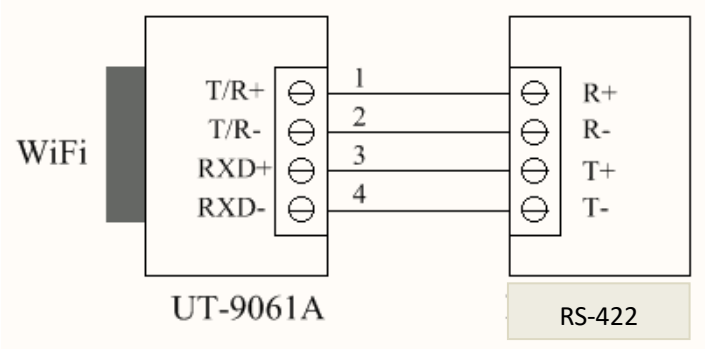
1. RS-485 point-to-point/two-wire half-duplex



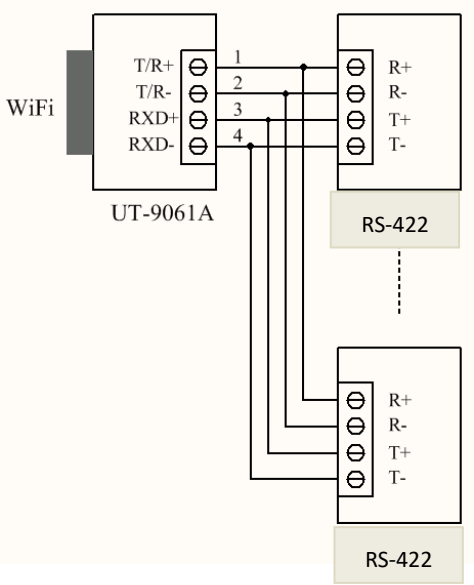
2. RS-485 point-to-multipoint/two-wire half-duplex



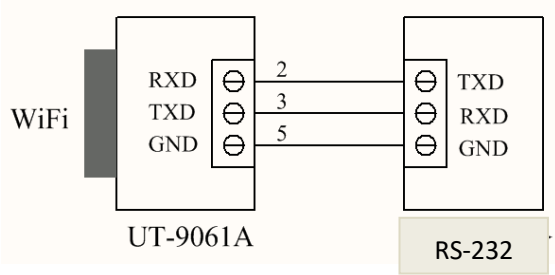
3. RS-422 point-to-point/four-wire full-duplex



4. RS-422 point-to-multipoint/four-wire full-duplex



5. UUT-9061A RS-232 interface communication



7. Appearance