

**USR-Be Honest, Do Best !**

Company: Jinan USR IOT Technology Limited  
Address: 1#721-729, Huizhan Guoji Cheng, Gaoxin Qu,  
Jinan, Shandong, 250101, China  
Website: <http://www.usriot.com>  
E-Mail: [sales@usr.cn](mailto:sales@usr.cn) [tec@usr.cn](mailto:tec@usr.cn)  
Telephone: +86(0531)88826739



2014.09 4nd

Specialized in IOT



Jinan USR IOT Technology Limited

## About USR

Jinan USR IOT Technology Limited has been focusing on IOT and M2M field for more than 6 years. We offer networking products such as serial device server, Ethernet to serial, GPRS DTU and embedded WIFI module. We have professional R&D teams for hardware and software, phone APP and server. And we can provide OEM & ODM service for clients.

Our company has rich experience in system solutions such as smart home system, intelligence fire, agricultural network, temperature and humidity acquisition, industrial control, attendance, entrance guard system, remote control and RFID wireless signal forwarding.

We aspire to be an leader in IOT and M2M field. We will be honest and do best. We will spare no efforts to satisfy clients' demand and create value for them. We believe God rewards the diligent, and we are willing to grow together with our clients and make them successful.

**Company culture: Be honest, Do best!**

**Company Values: God help those who help themselves.**

**USR vision: First brand of network communication.**

**USR mission: Make network communication easier.**

**Product concept: Simple, reliable, reasonable price.**



## USR Honor

- We have patents, copyrights, certificates and online marketing
- We provide simple, reliable products with reasonable price



USR Trademark Registration

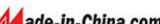


Alibaba TrustPass

Alibaba



Enterprise QQ



Made In China



GlobalSources

## USR-TCP232-T24 Products



## USR-TCP232-T24 Series

### T24 Series Character

- Serial & Ethernet bi-directional transmission
- Support D2D forwarding and Smart Virtual COM
- Simple reliable
- Small size
- Low cost

### T24 Series Products

USR-TCP232-T	USR-ES1	USR-W5500
Character: Embedded PCB Pin type low cost 3.3V TTL Size: 55x23x23(mm) Power: 5V / 3.3V	Character: SPI interface Pin type 3.3V TTL Size: 28.5x23x24(mm) Power: 3.3V	The same as USR-ES1 Size: 9x9(mm)
USR-TCP232-D	USR-TCP232-2	USR-TCP232-200
Character: DIP version Pin type low cost 3.3V TTL Size: 44x32x15.4(mm) Power: 5V / 3.3V	Character: Small size 1*RS232 Size: 67x42x17(mm) Power: 5V	The same as TCP232-2 Size: 66x71x25(mm)
USR-TCP232-S	USR-TCP232-24	USR-TCP232-300
Character: SMT type tiny size 3.3V TTL Size: 33x20x1(mm) Power: 3.3V	Character: 1*RS232/RS485 Size: 90x50x17(mm) Power: 5V	The same as TCP232-24 Size: 90x84x25(mm)

## USR-TCP232-E45 Series



## USR-TCP232-E45 Series

### E45 Series Character

- Serial & Ethernet bi-directional transmission
- Support domain
- Webpage Configuration
- TCP/UDP/Httpd/WEB to Serial
- Support DHCP&DDNS
- Support D2D forwarding and Smart Virtual COM
- Multi-COM work simultaneously

### E45 Series Products

USR-TCP232-E (Upgrade to E2)	USR-TCP232-ED (Upgrade to ED2)	USR-C68-IQ
Character: 2*TTL Pin Compatible with-T 3.3V TTL Size: 55x30x23.2(mm) Power: 5V / 3.3V	Character: 3*TTL Pin Compatible with-D 3.3V TTL Size: 44.5x31.8x15.4(mm) Power: 5V / 3.3V	Character: It is chip Embedded E45 Program Provide Design Size: LQFP100 encapsulation
USR-TCP232-401 (Upgrade to 410)	USR-TCP232-504	USR-TCP232-500
Character: 1*RS232 1*RS485 Size : 90x84x25(mm) Power: 5~18V	Character: 3*RS485 Size: 95x85x25(mm) Power: 5~18V	Character: 2*RS232 1*RS485/RS422 Size: 155x100x34(mm) Power: 5~48V
USR-TCP232-52E	USR-TCP232-52PE	
Character: 2*RJ45 2*RS232 + 1*RS485 Size: 115x105x28(mm) Power: 5~28V	Character: The same as 52E Support POE power	

## USR-TCP232-M4 Series



## USR-TCP232-M4 Series

### M4 Series Character

- Serial & Ethernet bidirectional transmission ■ Cortex-M4 Kernel ■ Basic frequency of 120MHz ■ Multi-COM work simultaneously
- Support web configuration ■ Support domain ■ TCP/UDP/Httpd/WEB to Serial ■ Support D2D forwarding and VCOM

### M4 Series Products

#### USR-TCP232-E2



Character : Dual Serial Server  
Pin Type  
Compatible with -T Pin  
3.3V TTL  
Size : 55x30x23.2(mm)  
Power : 5V / 3.3V

#### USR-TCP232-ED2



Character : Triple Serial Server  
Pin Type  
Compatible with -D Pin  
3.3V TTL  
Size : 44.5x31.8x15.4(mm)  
Power : 5V / 3.3V

#### USR-TCP232-410



Character : Dual Serial Server  
1\*RS232  
1\*RS485  
Size : 90x84x25(mm)  
Power : 5~18V

## USR-WIFI High-Performance Products



## USR-WIFI High Performance Series

### WIFI Series Character

- Serial &WIFI bi-directional transmission
- Support IEEE 802.11 b/g/n
- Webpage configuration
- Support WDS
- Support DHCP&DDNS
- AP+STA work mode
- TCPB/TCP
- Router function
- IO protective

### WIFI Series Products

USR-WIFI232-D2	USR-WIFI232-A	USR-WIFI232-B
Character: Pin type Internal/external antenna 3.3V TTL Size: 32x45x8(mm) Power: 3.3V	Character: Pin type Internal antenna 3.3V TTL Size: 25x40x8(mm) Power: 3.3V	Character: Pin type External antenna 3.3V TTL Size: 25x40x8(mm) Power: 3.3V
USR-WIFI232-Ca/b	USR-WIFI232-2EV2	USR-WIFI232-2
Character: SMT type Internal/external antenna 3.3V TTL Size: 25x40x3(mm) Power: 3.3V	Character: Kit for-A/-B RS232/RS485/RJ45 Size: 96x60x16(mm) Power: 5~18V	Character: Kit for-A/-B 1*RS232 Size: 94x50x13(mm) Power: 5~9V
USR-WIFI232-610	USR-WIFI232-602	USR-WIFI232-604
Character: RJ45 & WIFI 1*RS232/RS485 1*RJ45 Size: 101x84x24(mm) Power: 5~18V	Character: RS232 Embedded WIFI232-2 Size: 101x84x24(mm) Power: 5~9V	Character: 1*RS485 Size: 101x84x24(mm) Power: 5~9V

## USR-WIFI Low Power Products



## USR-WIFI Low Power Series

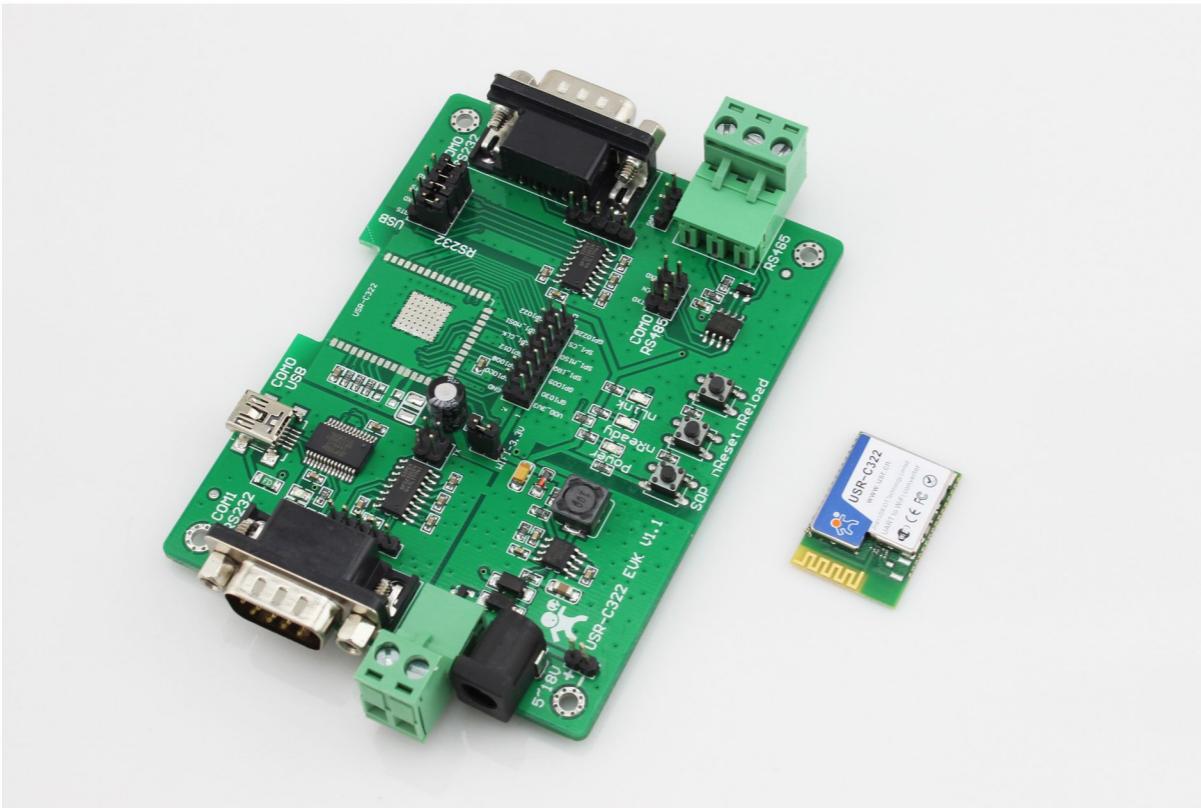
### WIFI Series Character

- Serial & WIFI bi-directional transmission
- Support DHCP& DDNS
- Ultra-low power,standby current only 12mA
- Wi-Fi @ 2.4 GHz,WEP/WPA/WPA2 safe mode
- Low cost
- AP+STA work mode

### WIFI Series Products

USR-WIFI232-T	USR-WIFI232-Sa/b	
Character: Support Smart link Support WPS Pin type/ tiny size 3.3V TTL Size: 22x13.5x9(mm) Power: 3.3V	Character: Support Smart link Support WPS SMT/ low cost 3.3V TTL Size: 22x13.5x3(mm) Power: 3.3V	
USR-WIFI232-G2	USR-WIFI232-Ha/b	
Character: Support Smart link Support WPS SMT type 3.3V TTL Size: 23.1x32.8x2.7(mm) Power: 3.3V	Character: Support audio config. Support WPS SMT/Low cost 3.3V TTL Size: 23.1x32.8x2.7(mm) Power: 3.3V	
USR-WIFI232-200	USR-WIFI232-G2EVK	USR-WIFI232-TEVKV2
Character: Support Smart link Support WPS 1*RS232 Size: 76x71x25(mm) Power: 5V	Character: Kit for WIFI-G2 1*RS232 Size: 15x76x15(mm) Power: 5V	Character: Kit for WIFI-T 1*RS232 Size: 67x42x13(mm) Power: 5V

## USR-C32 Series



## USR-C32 Series

### C32 Series Character

- Serial & WIFI bidirectional transmission
- Ultra-low power : Working : Min 3.5mA; Deep Sleep : Min 25uA
- Max baud rate of 3M bps
- Support DHCP to assign IP dynamically
- One key access to WiFi and support WEP-A,WPA/WPA2 security mode
- TI CC3200 Solution

### C32 Series Products

USR-C322	USR-C322-EVK
Character : Support Simplelink SMT Low Cost Minisize 3.3V TTL Size : 18.22*26.65*2.8(mm) Power : 3.3V	Character : C322 Evaluation Board RS232x2 (one is available) RS485x1 USBx1 Size : 11.8x7.6x2(mm) Power : 5-18V

## USR-GPRS232 Products



## USR-GPRS232 Series

### GPRS Series Character

- Serial & GPRS bi-directional transmission
- Support D2D forwarding
- Max 4 TCP connection
- COM command mode
- Industrial quality
- Software support
- 232/485/TTL to choose
- Four Frequency

### GPRS Series Products

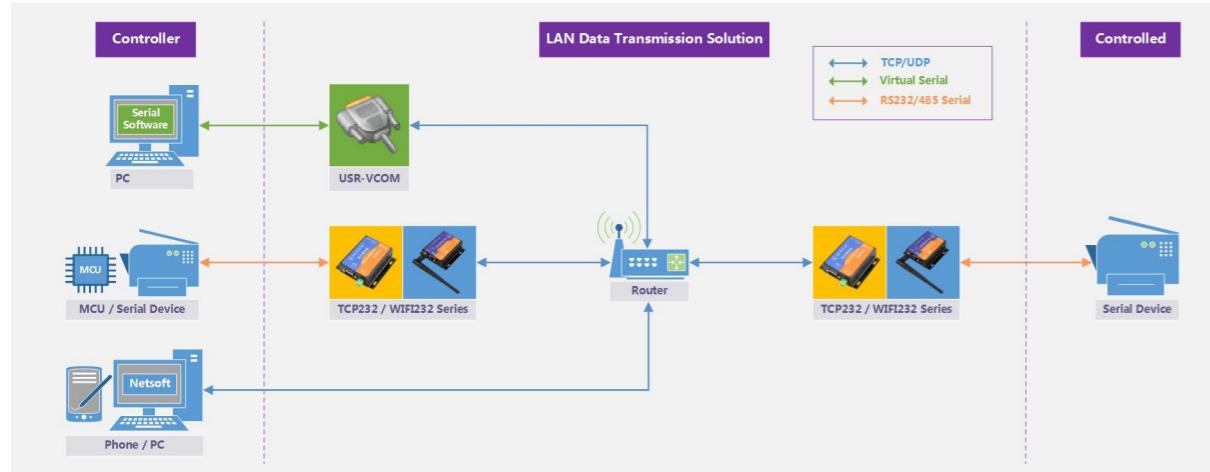
USR-GM1	USR-GPRS-7S2
 Character: UART to GPRS Voice communication SMT Size: 24x25(mm) Power: 3.6~4.2V	 Character: UART to GPRS Compatible with TCP232-D Pin type 3.3V TTL Size: 44.5x32x13(mm) Power: 5~18V
USR-GPRS-701-2	USR-GPRS-701-4
 Character: RS232 to GPRS Support AT Command SMS Configuration 1*RS232 Size: 92x83x25(mm) Power: 5~28V	 Character: RS485 to GPRS Support AT Command SMS Configuration 1*RS485 Size: 97x80x22(mm) Power: 5~28V
USR-GPRS232-710	USR-GPRS-MODEM
 Character: Serial to GPRS 1*RS232/RS485 adaptive Size: 119x72x34.5(mm) Power: 5~28V	 Character: Send SMS Support AT Command(GSM 07.07) Support GPRS Connection Size: 94x84.5x25(mm) Power: 5~18V

## LAN Data Transmission Solution

### Introduction

LAN control can be realized in the following three ways when serial devices are connected to TCP232 or WIFI232 series:

1. When PC serial software controls serial devices, users can install USR-VCOM on PC and serial software can control the virtual serials;
2. Bi-directional data communication can be realized if serials of two serial devices are both connected to TCP232 or WIFI232 series;
3. When Smartphone or PC sends data to TCP232 or WIFI232 series, serial device can receive the same data;



### USR-VCOM



Model: USR-VCOM

Function: Connect TCP/IP, broadcast UDP, map into local virtual serial, realize remote control and data transmission;

Character: Automatically create matched virtual serials; support D2D data forwarding; integrated TCP232 / WIFI232 configuration; for free;

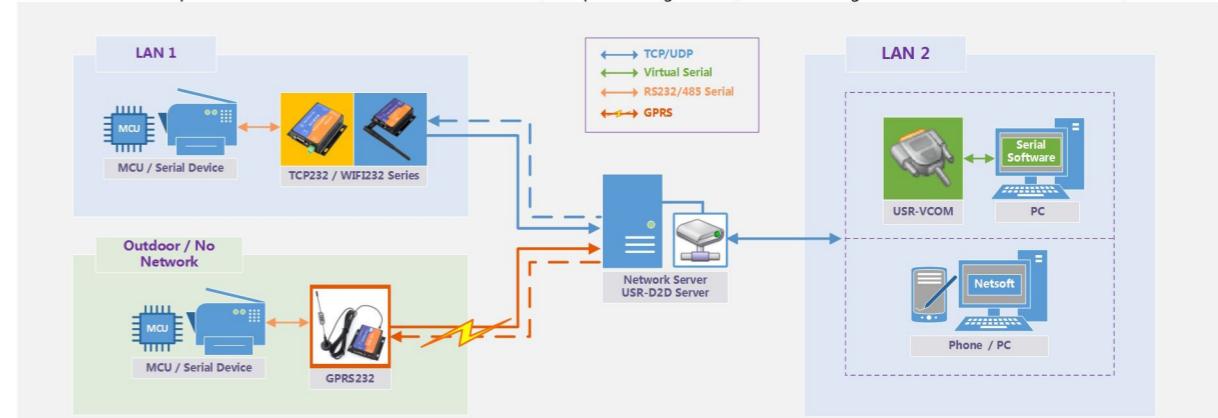
System : Windows 98 or above(support 64 bits)

## Remote Data Transmission Solution

### Introduction

The solution can realize remote data acquisition and control by USR-D2D which can be applied to the following environments:

1. After serial devices connect to TCP232 or WIFI232 series and device registration ID is set, serial device can transmit data with remote computer in network
2. After serial devices connect to GPRS232 series and device registration ID is set, serial device can use GPRS network to transmit data with remote computer in a non-network situation;
3. If control software is serial software: install USR-VCOM and set virtual serial ID; realize data transmission between software and virtual serial;  
If users can develop control software: TCP connects to D2D server; complete ID registration; realize docking between software and D2D server;



### USR-D2D Server



Model: USR-D2D

Function: A high-performance TCP server; realize data forwarding among different TCP clients;

Character: Simple operation; service running; high-performance framework;

Work Mode: D2D-Direct mode, forward all the data to target ID due to configured ID forwarding service logic;

D2D-Command mode, forward data to any assigned ID by identifying D2D format;

## USR Audio Series



### Audio Series Functions:

- Audio from phone,PC and PAD plays via WIFI
- Support DLNA and Airplay protocol
- Support router function, can access to the Internet

### Audio Products



Support SerialAPP  
Size: 33x48x3(mm)  
Power: 5V



Based on S12 module  
Support RJ45/WIFI  
Support USB power  
Size: 110x80x25(mm)



Based on S12 module  
HiFi ceramic audio  
6.5" PP cone +1"  
Diameter: 26(cm)

## WIFI LED Dimming Solution



### Introduction



**USR-WL1**

Function: Smartphone controls LED by WIFI  
Platform: IOS,Android  
Power: 2.5W  
Input Voltage: 12V ~ 24V  
Output Voltage: same as input voltage  
LED Output: 4 circuits (RGBW )

### Application



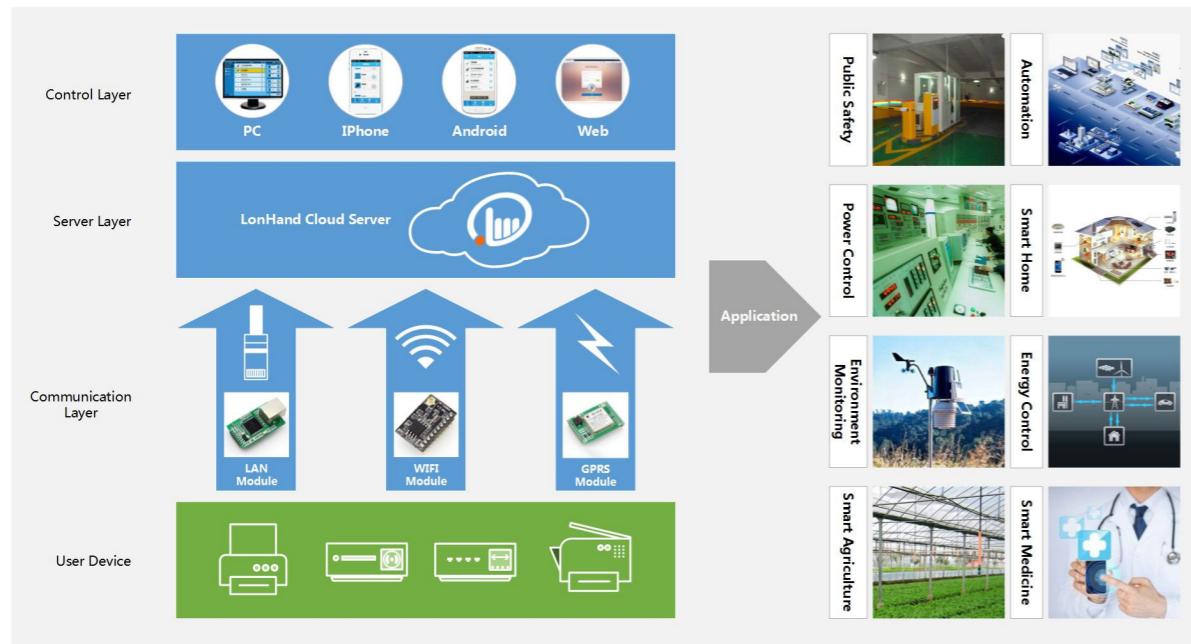
### Cooperation

- Lamp Manufacturer: embedded with WL1 core module, lamp can change colors by Smartphone control.
- DIY users: furnish WL1 to ceiling,car fish tank and fence and use smartphone to dimming

LonHand is a mature open remote control system. As long as users embed LonHand modules into devices, they can quickly build a mature stable system for remote data acquisition, remote control and data management.

#### System Includes :

  Communication Layer ( ethernet,WIFI, GPRS module )     Server Layer ( device, data management )     Control Layer ( all platforms )



USR can provide clients a whole solution from hardware,PC and mobile APP, server program to web control program.

