SLK-W300

Serial to WIFI Module

Data Sheet

Data: 3/6/2017 Version：V2.1

Introduction:

Slk-W300 converts low-speed, traditional asynchronous communication serial port rs232/485 into wireless WiFi network, which extends the transmission distance of serial port through wireless, and enables the traditional communication serial device to establish network communication on the spot. WiFi supports standard 802.11b/g/n, integrated TC/IP protocol, and STA/AP/AP+STA working mode. At the same time, it supports rs232/485 serial port communication, equipped with TVS,ESD and other protection, wide temperature and wide voltage, suitable for harsh industrial environment applications. At present, the product has been widely used in the M2M industry in the industrial chain of the Internet of things, such as self-service terminal, smart grid, smart transportation, smart home, supply chain automation, industrial automation, intelligent building, agriculture, forestry, water supply, coal mine, petrochemical and other fields

Features

- ✓ Supported 802.11b/g/n wireless standard
- ✓ Supported TCP/IP Protocols
- ✓ Supported RS232/485,up to 460.8kbps
- ✓ Supported STA/AP/AP+STA work mode
- ✓ Supported route and bridge connection
- ✓ Supported as ID,MAC or user-defined for Registry Package
- ✓ Supported Heartbeat packet
- ✓ Supported Timeout restart, timed restart function
- ✓ Supported Websocket to serial port with web communication function
- ✓ Supported web , AT command ,net-AT 3 ways to setup
- ✓ Supported Transparent mode

Details of parameters

WiFi performance：

WIFI Stander	802.11b/g/n
Frequency	2.4GHZ
TX-Power	802.11b: +19dBm(Max.@11Mbps） 802.11g: +18dBm(Max.@54Mbps） 802.11n: +17dBm(Max.@HT20,MCS7) 802.11n: +17dBm(Max.@HT40,MCS7)
RX Sensitivity	802.11b: -89dBm （@11Mbps） 802.11g: -81dBm （@54Mbps） 802.11n: -73dBm （@HT20,MCS7） 802.11n: -71dBm （@HT40,MCS7）
Transmission distance	MAX:280m（Open horizon）
User	24users
WiFi Interface	Female-SMA connector，as 7db Sucker WIFI antenna

Serial port performance：

Serial port number	1 port
Serial port type	RS232/485
Baud rate	300-460.8kbps
Data bits	5bits，6 bits，7 bits，8 bits be setup
Stop bits	1 or 2 bits be setup
Parity	None, Even, Odd
Cache	RX:4Kbyte TX:4Kbyte
Flow Control	RTS/CTS
Protection	TVS,ESD

Default parameters

Default **SSID**	USR-WIFI232-B2_xxxx
Data Encryption	OPEN，NONE
Serial parameters	57600,8,1,None,NFC
Network parameters	TCP Server,8899,10.10.100.254
Default IP	10.10.100.254
Default password	admin

Software parameters ：

Work mode	STA/AP/AP+STA
Safety	WEP/WPA-PSK/WPA2-PSK
Encryption Type	WEP64/WEP128/TKIP/AES

Protocols	TCP、UDP、PING、UPNP、ARP、DHCPC、DNS
Virtual serial port	Windows 2000 or 32/64 bit WIN7/8/10
Setup Ways	Web interface, AT command
Serial Transparent Transmission Mode	TCP Server/TCP client/UDP Server/UDP Client
Serial Packet Data	Free group frame (default on) time interval between bytes (ms) : 10/50 defaults to 50, which can be set Automatic framing (off by default) packaging time (ms) : 100 ~ 10000 default 500, can be set Package length (byte) : 16 ~ 4096 default 512, can be set

LED indicating lamp ：

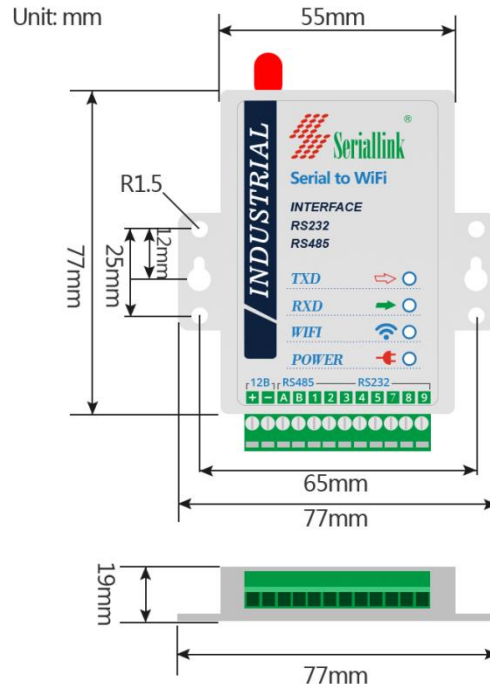| TXD	When there is data to send when flashing, no data lights out
RXD	Flicker when data is received and no data lamp is off
WiFi	Normally open after system startup
Power	Normally open after power connected

Physical parameter：

Input Voltage	DC5-36V，default 12V/1A power adapter
Input electric current	270ma/5V Max
Size（unit：mm）	L：77MM W：55MM H：19MM
Weight	Net Weight：150g, With Packaging：450g

Working Environment：

Working Temperature	-40～85℃
Storage Temperature	-40～125℃
Storage Humidity Range	5%～95% RH

Others：

Warranty	2 years
Certification	CE,FCC,RHOS
Package contains	SERIALLINK serial port to WIFI host, power adapter, sucker type WIFI antenna, warranty card, instruction manual (electronic file), certificate of qualification

Size and Mounting：

Terminal pin definition

+	--	A	B	1	2	3	3	5	7	8	9
V+	V-	RS485		NC	TXD	RXD	NC	GND	CTS	RTS	**Factory reset**

Note: when the serial port to WiFi module is added to other WiFi routers, if it needs to be reconfigured, connect the 9-PIN and 5-PIN short connection for more than 5 seconds to restore the factory working mode AP, and then connect the WiFi module for configuration.

WIFI Antenna	Female SMA connector

Order information：

Model	Product Name	Web
SLK-W300	Serial to WIFI	www.seriallink.net