



INS021-W

RS485 to WiFi and Ethernet Converter



The INS021-W supports serial port to WiFi function, converting the serial port (RS-485) connection switch into TCP/IP net interface to enable transparent bi-directional transmission between a serial port and WiFi/Ethernet. The INS021-W allows serial devices to have an immediate TCP/IP network interface function and to connect to the network for data communication, extending the communication distances of serial devices.

FEATURES

- Supports 802.11b/g/n wireless standards
- Supports route and bridge modes
- Supports RS-485 to WiFi/Ethernet communication
- Rich indicator LED: Power, link, RXD, TXD
- Wide voltage DC 5~36V, support terminal power
- Transparent Transmission mode, serial command mode, HTTPD Client, MODBUS, AT command mode
- Timeout reset function and timing reset function
- Long distance communication between two serial servers, up to 150m

SPECIFICATIONS

ETHERNET

Port Number	1 Ethernet Ports: 1 x WAN/LAN
Buffer	RX/TX: Max 4K bytes
Protection	2KV Electromagnetic isolation for Ethernet port
Speed Rate	10/100Mbps, MDI/MDIX

WIFI

Certificate	FCC/CE
WiFi	802.11 b/g/n
Frequency Range	2.412GHz-2.484GHz
Transmit Power	802.11b: +19dBm(Max.@11Mbps) 802.11g: +18dBm(Max.@54Mbps) 802.11n: +17dBm(Max.@HT20,MCS7) +17dBm(Max.@HT40,MCS7) User can configure power
Receive Sensitivity	802.11b: -89dBm(@11Mbps) 802.11g: -81dBm(@54Mbps) 802.11n: -73dBm(@HT20,MCS7) -71dBm(@HT40,MCS7)

HARDWARE

Interface Standard	RS485: 300~230.4Kbps 485 interface (surge, lightning and overcurrent protection)
Input Voltage	DC5~36V
Operating Temp	-40?~85?
Storage Temp	-40?~125?
Dimensions	109.66 x 28 x 64.71mm (LxWxH)

SOFTWARE

Network Mode	Station/AP/AP+Station
Security	WPA-PSK/WPA2-PSK
Encryption	TKIP/AES
Work Mode	Transparent transmission/Serial command/https Client/Modbus TCP<=>Modbus RTU
Setting Command	AT+ command
Networking Protocol	TCP/UDP/ARP/ICMP/DHCP/DNS/https
Max Client Number in	
TCP Server Mode	24
Configuration	Web server+AT command
Customer app software	Supports customized application software