Product Features

- Integrated 2.4GHz, IEEE 802.11b/g compatible WiFi connectivity
- Dual 8-bit 1T 8051/80390 CPU @ 80MHz
- Baud rate Range: 3600 to 921600bps, UART support RS232/RS485/RS422.
- On board ceramic chip antenna and U.FL connector for external antenna
- Max outdoor range up to 300m (984 ft.), line of sight
- Electromagnetic Compatibility：FCC, CE, ARIB
- Peak Current at 3.3V Power Input in Serial to WiFi Device Server Application about 360mA
- Security 802.11i security: WEP-64/128, TKIP(WPA-PSK) and AES (WPA2-PSK)
- Up to 13 channels. Profiles available include USA, Canada, Europe, Spain, France, Japan, China, Taiwan and "Other" (multiple countries)
- Update firmware by webpage or TFTP.
- Built-in watchdog.
- Supports 3 WiFi power saving modes in normal operation of Infrastructure mode with auto-wakeup timer for upcoming Beacon frame reception.

Applications

- Serial to WiFi Device Server
- WiFi Speaker
- WiFi Remote Control/Monitor
- Ethernet to WiFi Bridge
- WiFi Network Camera
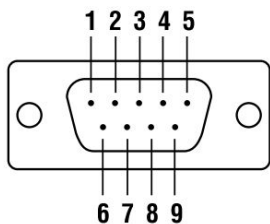- WiFi RFID TCP/IP and WLAN Offload

Product Description

The ATC-1000WF is a 2.4GHz 802.11b/g WiFi device with U.FL connector for external antenna transceiver on board to provide a complete. The ATC-1000WF is a rail mounting device with lower-cost, pre-calibrated RF front-end and pre-certified Wi-Fi. This complete solution is preloaded with software to simplify integration and minimizes development of your application. In the simplest configuration the hardware only requires four connections (PWR, TX, RX, GND) to create a wireless data connection. The ATC-1000WF is programmed and controlled with a simple ASCII command language and webpage. Once the ATC-1000WF is setup it can scan to find an access point, associate, authenticate and connect over any Wi-Fi network.

Pin Assignment

RS-232 DB-9(Male)

PIN	RS-232
1/4/6/9	-
2	RXD(in)
3	TXD(out)
5	GND
7	CTS(out)
8	RTS(in)

RS-485/422 6-pin Terminal block

1	2	3	4	5	6
485+(T+)	485-(T-)	R+	R-	VCC (9~24VDC)	GND

Order Information

ATC-1000WF   Wi-Fi（802.11b/g） to Serial Port Converter   RS-232/422/485

Package Checklist

- ➤ ATC-1000WF unit   1 PCS
- ➤ Documentation and software CD   1PCS
- ➤ Power adapter 9V   1PCS
- ➤ monopole Antenna (2dBi RP-SMA) 1PCS

Specifications

Serial Interface		
Interface Type	RS-232/485/422 3 in 1(optional)	
UART Speed	1200bps to 115200bps	
Data Bits	5, 6, 7 or 8 bits	
Parity	None, Odd, Even	
Stop Bits	1 , 1.5 or 2 bits	
Flow Control	None, Software: Xon/Xoff, Hardware: RTS/CTS	
Protocol	IP/TCP/UDP/ICMP/IGMP Checksum and ARP in hardware; TCP, UDP, ICMP, IGMP, IPv4, DHCP, BOOTP, ARP, DNS, SMTP, SNTP, UPnP, PPPoE, Telnet and HTTP in software	
Connector	RS-232	DB-9 male
	RS-485/422	6-pin Terminal block
Radio Characteristics		
Frequency	2.412 ~ 2.472 GHz	

Channels	1 - 11
Transmission rate (over the air)	IEEE 802.11b: 1, 2, 5.5 and 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps Supports TX rate auto fall-back mechanism
Wi-Fi Certified ID	WFA11474 for AXM22001-2A-B

System

CPU	ASIX AX22001, dual 8-bit 1T 8051/80390 CPU (MCPU/WCPU) @ 80MHz
Memory	1M FLASH, 64K SRAM
RF Transceiver	Airoha AL2230S
LED Indicators	LINK	WLAN status
	ACT	It will flash when transmit the data from WLAN to serial or from serial to WLAN.
	PWR	Power indicator

Power Supply

9~24VDC

Physical Characteristics

Housing	Iron (1mm)
Weight	0.5Kg
Dimensions	100 × 86 × 26 mm(3.94 × 3.39 × 1.02 in)

Environmental Limits

Operating Temperature	-20 ~ 70°C
Storage Temperature	-40 ~ 85°C
Ambient Relative Humidity	5% to 95%(non-condensing)

Standards and Certifications

RoHS, CE, FCC

Contact us

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