

ACTE POXA WiFi module

Welcome to the POXA Wifi module from ACTE.

ACTE introduces POXA 2501, the off-the-shelf and fully integrated single 2.4GHz band 802.11 b/g/n WiFi module

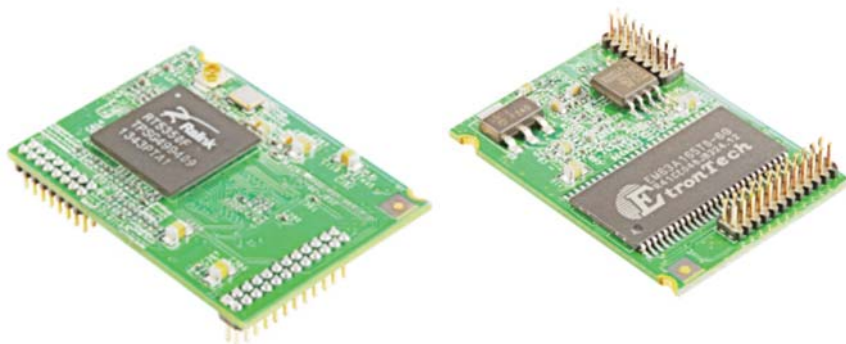
POXA 2501 is a cost effective miniature wireless module in 25 x 35 x 4.8mm form factor ideal for small industrial routing application.

POXA 2501 is incorporated with IEEE802.11n grade Wi-Fi SoC with a Linux based system on a high performance 360MHz MIPS processor, which achieves a data rate up to 150Mbps. 3 times faster than the legacy 11g model.

POXA 2501 is an extremely efficient, all in one supporting multi-purpose installation to share wireless connection supporting 64/128-bits WEP, TKIP, WPA, WPA2, AES and WPS, to protect your data and privacy during transmission.

WiFi Module Features:

- IEEE 802.11 b/g/n Standard compliant
- IPV4/IPV6
- Multi-modes: AP/Client
- DHCP Client/Server
- Dynamic DNS
- Firewall: MAC/IP/Port Filter/Virtual Server/DMZ
- USB 2.0 ready
- 1xUART, 3 GPIOs, JTAG, I2C
- 2 x 10/100 PHY (WAN/LAN)
- Support boot from Flash
- Runs at full speed and maintains 60 °C chip surface temperature
- RoHS Compliance



WiFi Module Specification:



	IEEE802.11b/g/n	POXA 2501
Hardware		
	Solution	Ralink RT5350 (H.264 / MJPEG optional)
	Supply Power	Two source inputs: 500mA max.@3.3V, 600mA max.@1.2V
	Power consumption	300mA (Typical) depend on the system design
	Antenna Type	1 x I-PEX Connector (PIFA optional)
	Interface	USB 2.0 (Host), 1xUART, 3 GPIOs, JTAG, I2C, SPI, I2S, PCM
	Memory Size Flash:	16MB, 8MB, 4MB, 2MB, Default is 8MB, 4MB SDRAM: 32MB, 16B, default is 32M
	Dimension	25 x 35 mm (DIP)
RF Characteristics		
	Wireless Mode	One Transmit and One Receive path (1T1R) Embedded PA/LNA
	Standard	IEEE 802.11 b/g/n standards compliant
	Frequency Range	2.400 to 2.4835GHz (subject to local regulations) 20MHz/40MHz bandwidth
	Transmit Power(EIRP)	IEEE802.11n HT40 MCS7: +13 dBm IEEE802.11g OFDM: +15 dBm IEEE802.11b CCK: +18 dBm
	Receiver Sensitivity	-66dBm at HT40 MCS7 -73dBm at 54Mbps -86dBm at 11Mbps
	Selectable Channels	IEEE802.11n 20MHz/40MHz IEEE 802.11b/g USA, Canada (FCC): 11 channels (2.412GHz to 2.462GHz) Europe (CE): 13 channels (2.412GHz to 2.472GHz) Japan (TELEC): 14 channels (2.412GHz to 2.4835GHz)
	Data Rate	IEEE802.11n: up to 150Mbps IEEE802.11b: 1, 2, 5.5, 11Mbps IEEE802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	Network Configuration	DHCP Client/Relay/Server Dynamic DNS, NTP Client, DNS Cache/Proxy, Firewall: MAC/IP/Port Filter/Virtual Server/DMZ/Content Filter
	Network Security	Support Hidden SSID Support WPS High security: WEP64/128, TKIP, WPA, WPA2 AES, 802.11i, 802.1X Authentication with RADIUS Client
	Embedded Firewall	MAC/IP/Port Filter/Virtual Server/DMZ

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