



- **IEEE 802.11a//b/g compliance**
- **Super AG mode includes Dynamic 108 Mbps Capability**
- **Affordable and ideal for a variety of applications**

ETC-WL024A

11a/b/g mini-PCI Card

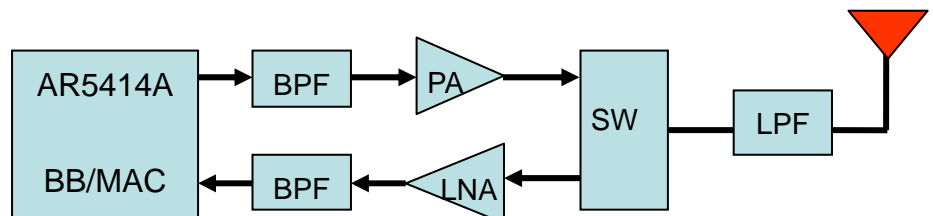
The ETC-WL024 Mini-PCI WLAN card are compact, lightweight, has high-performance. Built on Atheros AR5414 chipset with Super AG feature (data rate 108Mbps), it can be used for all IEEE 802.11a/b/g WLAN and is ideally suited for integration in a wide range of OEM device.

ETC-WL024 Mini-PCI also supports a variety of security features such as WEP, AES, receive and transmit filtering, error recovery, quality of service (QoS) as well as IEEE 801.1X standard, thus providing security to the wireless network and increase WLAN performance. It is also available in different mode which delivers better performance at high throughput for your network connectivity.

Features

- 2.4/5GHz IEEE 802.11a/b/g standard
- WiFi Protected Access Client Support (WPA) and IEEE802.11i security Specifications, provides Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP) and Wired Equivalent Privacy (WEP) Without performance degradation
- Super AG mode includes dynamic 108Mbps capability (AR5414), real-time hardware data compression, Fast Frames and standard-compliant bursting
- Dynamic frequency selection/transmit power control (DFS/TPC) for international operation
- Support for draft IEEE 802.11e,h,i and j standards

Diagram



Applications

- Infrastructure Network
- Embedded system or OEM device



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ETC-WL024A 11a/b/g mini-PCI Card Specification

Product Description		
IEEE 802.11a/b/g Wireless LAN Mini-PCI Card		
Chipset		
Atheros AR5414		
OUTPUT POWER(±1.5dBm)		
802.11a	802.11g	802.11b
17dBm@6Mbps 16dBm@36Mbps 14dBm@48Mbps 13dBm@54Mbps	18dBm@6~24Mbps 17dBm@36Mbps 16dBm@48Mbps 15dBm@54Mbps	19dBm@11Mbps
OPERATING FREQUENCY(IEEE 802.11a/b/g)		
USA(FCC)	11a:5.15GHz~5.35GHz; 5.725GHz~5.850GHz 11b/g:2412MHz~2462MHz(CH1~CH11)	
Europe(ETSI)	11a:5.15GHz~5.35GHz; 5.47GHz~5.850GHz 11b/g:2412MHz~2472MHz(CH1~CH13)	
Japan(TELEC)	11a:4.9GHz~5.0GHz; 5.03GHz~5.091GHz; 5.15GHz~5.25GHz 11g:2412MHz~2484MHz(CH1~CH14) 11a:2412MHz~2472MHz(CH1~CH13)	
MODULATION(OFDM and DSSS)		
IEEE 802.11a	OFDM:QAM-64,QAM-16,QPSK,BPSK	
IEEE 802.11g	48/54 Mbps(QAM64), 24/36 Mbps(QAM16),12/18 Mbps(QPSK) 6/9 Mbps(BPSK)	
IEEE 802.11b	5.5/11 Mbps(CCK), 2 Mbps(DQPSK),1 Mbps(DBPSK)	
I/O INTERFACE		
Host Interface:	PCI interface v2.3(Type III-B Mini PCI form factor)	
Radio :	U.FL	
SECURITY		
64/128 Bit WEP,WPA/WPA2,IEEE802.1X Authentication		
OPERATING VOLTAGE		
DC 3.3V±5%		
POWER CONSUMPTION		
TX: 460mA ,RX: 230 mA		
Sensitivity(IEEE 802.11a/b/g @ Packet Error Rate<8%~10%)		
802.11a :-82dBm@6Mbps,-68dBm@54Mbps		
802.11b:-91dBm@1Mbps,-85dBm@11Mbps		
802.11g :-84dBm@6Mbps,-70dBm@54Mbps		
Environment		
	Temperature (Ambient)	Humidity (non-condensing)
Operating	-0~70°C	10~90%
Storage	-45~80°C	5~95%
Physical Specification		
Dimension	60mm(L)*45mm(W)*5mm(H)	
Weight	≤20g	