

Atheria APC11-A30SAG Mini PCI



Atheros (AR5006x AR5414) Chipset High Power (1W peak, 500mW avg)

- High Performance
- Output Power of up to 1 W or 30 dBm
- Affordable and ideal for a variety of applications

Atheria APC11-A30SAG MiniPCI network adapter is compact, lightweight, high performance and low power consumption. Built on Atheros AR5414 chipset, it can be used for all IEEE802.11 a/b/g compatible WLAN and support up to 108Mbps high-speed data rate. It is ideally suited for integration into a wide range of embedded system and OEM devices.

APC11-A30SAG MiniPCI network adapter offers an output power of up to 30dBm on b/g band, and supports a variety of security features such as WEP and AES, providing security to the wireless network and increasing WLAN performance.

Features

- 2.4/ 5GHz IEEE 802.11 a/b/g standard
- Up to 108Mbps high-speed data rate @ Turbo Mode
- Output Power of up to 30dBm @ b/g Band
- Wi-Fi Protected Access Client Support (WPA)
- Flexible design suitable for embedded system or OEM project

Applications

- Infrastructure Networking
- Embedded system or OEM device

Atheria MINI PCI SERIES

APC11-A30SAG MINIPCI TECHNICAL SPECIFICATIONS SPECIFICATON

Chip Set	Atheros(AR5006X AR5414)	
Interface Type	Mini PCI Type III B	
Frequency Band:	IEEE802.11a: 5150 MHz – 5250 MHz (Japan) 5150 MHz – 5350 MHz / 5470 MHz – 5725 MHz (Europe) 5150 MHz – 5350 MHz / 5725 MHz – 5850 MHz (USA) IEEE802.11g/b: 2400 MHz – 2483.5 MHz (for USA, Canada & Europe)	
Channel	IEEE802.11a 4 Channels (Japan) 19 Channels (Europe) 13 Channels (USA)	IEEE802.11b/g 14 Channels (Japan) 13 Channels (Europe) 11 Channels (USA)
Emission Type	OFDM; DSSS	
Output power	IEEE802.11a: 600mW(Peak), 300mW(Avg) IEEE802.11g/b: 1W (Peak) , 500mW (Avg)	
Frequency Stability	Within ± 20 ppm	
Data Modulation Type	BPSK (6 / 9Mbps) / QPSK (12 / 18Mbps) / CCK (5.5 / 11 Mbps) 16QAM (24 / 36Mbps) / 64QAM (48 / 54 Mbps)	
Power	3.3 Volt $\pm 5\%$	
Power Consumption	TX: under 1000 mA RX: under 450 mA	
Antenna connector	1* diveristy MMCX connector	
Antenna port impedance	50 ohm	
Bus Interface	Mini PCI 1.0 compliant	
Security	Hardware 64/128-bit WEP/TKIP/AES-CCM/ 802.1x, WPA	
Data Rate	802.11a Up to 54Mbps(108Mbps@Turbo Mode) 802.11g Up to 54Mbps , 802.11b Up to 11Mbps	
Operating Temperature	-20°C to +65°C. ambient	
Storage Temperature	-20 ~ 75 °C ambient	
Humidity	5 ~ 95% and must be non-condensing	
Sensitivity	IEEE 802.11 a/g 54 Mbps : ~ - 75 dBm 36 Mbps : ~ - 83 dBm 18 Mbps : ~ - 89 dBm 9 Mbps : ~ - 92 dBm 48 Mbps : ~ - 78 dBm 24 Mbps : ~ - 86 dBm 12 Mbps : ~ - 91 dBm 6 Mbps : ~ - 93 dBm	