



PCBA-AP2427

802.11b/g 500mW Realtek PCBA

- Support 802.3 48V DC/0.4A or 12VDC/1A PoE for RJ45 Connector
- High gain power amplifier, Low Noise Amplifier (LNA), Hi-Sensitivity
- Outdoor/Indoor Long Range AP, CPE, Hot Spot, Bridge, Repeater



PCBA-AP2427 support 2.4GHz band compliant with IEEE802.11b/g Standard, and also support 802.3 48V / 12V Power over Ethernet features to create more wireless backbone networks without the environment limitation. Wifi network SOC is designed to target small and medium business and embedded computing applications. The development of converged “solution in a box” allows integrating High Power wireless CPE, indoor/outdoor bridge, enterprise-grade wireless access point.

Base Platform

- RTL8186

Wireless Radio

- 802.11b/g

Serial Port

- 1 WAN port + 2 LAN Port Switch

Antenna Connector

- SMA

Frequency Range

- 2.400GHz~2.4835GHz

Operating Frequency / Channel

- 2.412~2.462GHz (Canada, FCC) / 11 Channels
- 2.412~2.484GHz (Japan, TELEC) / 14 Channels
- 2.412~2.472GHz (Euro, ETSI) / 13 Channels

Modulation Technique

- Orthogonal frequency division multiplexing (OFDM)
- Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)

Security

- 64/128bit WEP, WPA, WPA2, 802.1x and 802.11i

Media Access Protocol

- CSMA/CA (Collision Avoidance) with ACK

Output Power

- 54M/48M/36M: 23dBm±2dBi
- 24M/18M/12M: 25dBm±2dBi
- 9M/6M: 27dBm±2dBi
- 11M/5.5M/2M/1M: 27dBm ±2dBi

Data Rate

- 11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps with auto-rate fall back
- 11b: 11, 5.5, 2, and 1Mbps with auto-rate fall back

Sensitivity

- 54Mbps: -73dBm
- 11Mbps: -90dBm
- 1Mbps: -96dBm

Power Adapter

- 48V DC/0.4A or 12VDC/1A for RJ45 connector

Throughput

- 22Mbps@54Mbps; 5.5Mbps@11Mbps

Operating Temperature

- 0°C~55°C ambient temperature

Storage

- 20°C ~70°C ambient temperature

Humidity

- 5% to 90% Non-Condensing

Operating System Support

- Windows 98SE/ME/2000/XP/Vista, MAC OS 10.4.8 & Linux

Board Dimensions

- 153 x 130mm

TraNet Technologies Corp

6F-3, No.20, Lane 609, Sec. 5, Chung Hsin Rd.,
San Chung City, Taipei Hsien 241, Taiwan

www.aristar.com.tw