

AirLAN2000

PC/104+ Wireless LAN controller



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The AirLAN2000 provides a high speed Wireless Ethernet interface for PC/104+ systems. Utilizing the high performance 32-bit PCI interface the AirLAN2000 is available with Wireless Ethernet support at speeds of up to 54/108Mbits/sec.



The AirLAN2000 is available with options supporting a wide range of IEEE802.11 Wireless standards including 802.11a, b, g and h standards. The AirLAN2000 series is designed for demanding embedded applications and also features support for both the WPA (Wi-Fi Protected Access) and AES (Advanced Encryption Security) standards for securing wireless networks.

IEEE802.11 a/b/g

Wireless

Ethernet

Controller

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampltd.com
<http://www.ampltd.com>

Advanced Micro Peripherals Inc
New York, NY10001, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



AirLAN2000

PC/104+ Wireless LAN controller



The AirLAN2000 is available with drivers for Windows98/ME/2000/XP and Linux. Other drivers may be available on request.



Ideal for
Remote
Communication with
Outstation.

Applications

- Rugged, reliable industrial Wireless Ethernet
- High bandwidth remote communications
- MPEG Video streaming
- Mobile environment
- Remote surveillance
- Protocol Conversion
- Wireless Extension to Ethernet infra-structure
- Wireless Cell Network

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampltd.com
<http://www.ampltd.com>

Advanced Micro Peripherals Inc
New York, NY10001, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



AirLAN2000

PC/104+ Wireless LAN controller



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

Features

Wireless Ethernet to IEEE802.11 Standards

Option for IEEE802.11b/g 2.4GHz standard

Option for IEEE802.11a 5GHz standard

Up to 54MB/s and 108MB/s (Turbo) data rates

WPA - 64,128,152-WEP with TKIP for security

AES (Advanced Encryption Security) support

Peer-to-peer and Infrastructure configurations

Standard 32-bit PC/104+ bus interface

Compact 3.6in x 3.8in PC/104+ form factor

Single +5V power supply

Options for various

Standards

Including

IEEE802.11a 5GHz

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampltd.com
<http://www.ampltd.com>

Advanced Micro Peripherals Inc
New York, NY10001, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



PC/104-Plus Bus

Compliant with PCI Rev 2.1
 132MBytes/sec bandwidth at 33.33MHz bus speed
 PCI Bus Master/Slave

Host System Requirement

PC/104plus bus with one spare REQ/GNT
 +5V or +3.3V signalling

Network Standards

IEEE802.11, IEEE802.11a, IEEE802.11b
 IEEE802.11g
 draft IEEE802.11e, f, h, i (future options)

Data Rates

IEEE802.11a up to 54MBit/s normal, up to 108MBit/s
 (Turbo Mode)
 IEEE802.11g at 6, 9, 12, 18, 24, 36, 48, 54MBit/s
 IEEE802.11b at 1, 2, 5.5, 11MBit/s

Security

WPA Wi-Fi Protected Access with up to 152-WEP
 AES (Advanced Encryption Security) Support

Frequency Bands

IEEE802.11a - 5.15 - 5.25GHz,
 5.25 - 5.35GHz,
 5.725 - 5.825GHz
 IEEE802.11b/g - 2.412 - 2.462GHz (USA)
 2.412 - 2.484GHz (Japan)
 2.412 - 2.472GHz (Europe ETSI)
 2.457 - 2.462GHz (Spain)
 2.457 - 2.472GHz (France)

Transmit Power (typical)

IEEE802.11a - 15dBm +/-2 @ 54MBit/s
 13dBm +/-2 @ 108MBit/s (Turbo Mode)
 IEEE802.11g - 15dBm +/-2 @ 54MBit/s
 IEEE802.11b - 20dBm +/-2 for all rates

Receive Sensitivity

IEEE802.11a - -68dBm @ 54MBit/s
 IEEE802.11b/g - -68dBm @ 54MBit/s

Antenna Connection

Antenna Connection IEEE802.11a - dual
 IEEE802.11b/g - single SMA for Antenna

Miscellaneous

Single +5V power at less than 750mA
 Operating Temp 0°C to 55°C

Software

Driver support for Windows98/ME/2000/XP and Linux
 Driver support for QNX and VxWorks (optional)

Ordering Information

AirLAN2000-11a AirLAN2000 with 802.11a with
 double SMA connectors
 AirLAN2000-11bg Standard AirLAN2000 with
 802.11b and g

**AirLAN2000**