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

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
AirLAN2000

PC/104+ Wireless LAN controller

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
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

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