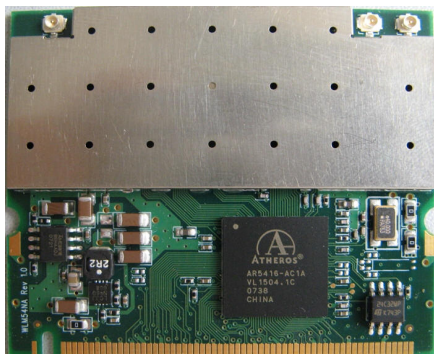




- ◆ **High Performance (up to 300Mbps) with Low Power Consumption**
- ◆ **Support up to 3X3 MIMO with spatial multiplexing**
- ◆ **Output Power of up to 20dBm at n/a/b/g band**
- ◆ **Affordable & ideal for various applications**

WLM300NA MINIPCI

Atheros AR5416 & AR5133 Chipset
20dBm @ 2.4/5GHz Up to 300Mbps

WLM300NA MiniPCI network adapter provides a better wireless signal and higher Performance (up to 300Mbps) for your Wireless AP & Wireless Router than existing Wireless 802.11a/g technology. Adding Wireless N to your Wireless device provides higher efficiency for everyday activities such as file transfers, Internet browsing, and media streaming.

Built on Atheros chipset, it can be used with all draft IEEE 802.11n compatible WLANs, and is ideally suited to be integrated into a wide range of OEM devices.

WLM300NA Mini PCI network adapter offers an output power of up to 20dBm on n/a/b/g band. It supports different security features such as WEP, TKIP, AES, receive and transmit filtering, error recovery, quality of service (QoS) as well as IEEE802.1x authentication, providing maximum privacy and security while delivering extreme performance to the wireless networks.

Features

- 2.4/ 5GHz IEEE draft 802.11n standard
- Support for up to 3x3 MIMO with spatial multiplexing
- Enables bandwidth of up to 300 Mbps PHY rate/link rate
- Six times the throughput of 802.11g and 802.11a
- Enhanced performance with Atheros XSPAN technology Optimized for higher throughput at long range
- Output Power of up to 20dBm @ n/a/b/g Band
- Dynamic Frequency Selection (DFS)
- Wireless Encryption and Authentication Supported
- Transmission Power Control (TPC)
- Multi-country Roaming Support (IEEE802.11d)
- Flexibility: flexible design for embedded system or OEM project

Applications

- Infrastructure Networking
- Embedded system or OEM device

WLM300NA MINIPCI TECHNICAL SPECIFICATIONS

MODEL		WLM300NA (Wireless-11N/A/G)		
CHIPSET	AR5416 &AR5133			
SPEED	300Mbps			
OUTPUT POWER				
802.11a	6Mbps	21.5±2dbm	36Mbps	20.5±2dbm
	48Mbps	19.5±2dbm	54Mbps	17.5±2dbm
802.11g	6-36Mbps	21.5±2dbm	48Mbps	20.5±2dbm
	54Mbps	17.5±2dbm		
802.11b	1-11Mbps	23.5±2dbm		
POWER CONSUMPTION				
1.8 W				
STANDS				
Draft 802.11n:	300Mbps,270Mbps,243Mbps,216Mb,162Mbps, 135Mbps, 130Mbps, 121.5Mbps,117Mbps,108Mbps,104Mbps,81Mbps,78Mbps,65Mbps,58.5Mbps,54Mbps,53Mbps,40.5Mbps,39Mbs,27Mbps,26Mbps,19.5Mbps,13.5Mbps,13Mbps,6.5Mbps,6Mbps			
IEEE 802.11a:	54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps			
IEEE 802.11b:	11Mbps, 5.5Mbps, 2Mbps, 1Mbps			
IEEE 802.11g:	54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps, automatically fallback to 5.5Mbps, 2Mbps, 1Mbps			
FREQUENCY RANGE				
IEEE 802.11n a:	5.15~5.35GHz, 5.725~5.850GHz (US & Canada)			
	5.15~5.35GHz, 5.47~5.725GHz (Europe)			
	4.90~5.00GHz, 5.03~5.091GHz, 5.15~5.25GHz (Japan)			
IEEE 802.11n b/g:	2.412GHz ~ 2.462GHz (US & Canada)			
	2.412GHz ~ 2.472GHz (Europe)			
	2.412GHz ~ 2.484GHz (Japan)			
HOST INTERFACE				
PCI interface v2.3 (Type III-B Mini PCI form factor)				
ANTENNA CONNECTOR				
Three antenna connectors (U.FL)				
MODULATION TECHNIQUES				
OFDM and DSSS				
OFDM: BPSK, QPSK, 16 QAM, 64QAM				
DSSS: DBPSK, DQPSK, CCK				
MODULATION TECHNIQUES				
802.11n a	US/Canada:	12 channels (36, 40, 44, 48, 52, 56, 60, 64,149, 153, 157, 161)		
	Europe:	19 channels (36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112,116,120,124, 128,132,136,140)		

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WLM300NA MINIPCI TECHNICAL SPECIFICATIONS

	Japan:	19 channels (36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112,116,120,124, 128,132,136,140)
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802.11n b/g	US/Canada:	11 Channels
	Europe:	13 Channels
	Japan:	14 Channels

SECURITY

64/128-bit WEP, TKIP, AES, IEEE802.X authentication

CERTIFICATE

FCC, CE

RoHS COMPLIANCE

Yes

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating -20°C to 70°C
	Storage -65°C to 100°C
Humidity	Operating 5% to 95% (non-condensing)

DIMENSIONS

Dimensions: 59.6 mmx51 mm (LXB)

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