



# 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.

- ◆ **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**

## 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

<b>MODEL</b>		<b>WLM300NA (Wireless-11N/A/G)</b>		
CHIPSET	AR5416 & AR5133			
SPEED	300Mbps			
<b>OUTPUT POWER</b>				
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		
<b>POWER CONSUMPTION</b>				
1.8 W				
<b>STANDS</b>				
Draft 802.11n:	300Mbps, 270Mbps, 243Mbps, 216Mbps, 162Mbps, 135Mbps, 130Mbps, 121.5Mbps, 117Mbps, 108Mbps, 104Mbps, 81Mbps, 78Mbps, 65Mbps, 58.5Mbps, 54Mbps, 53Mbps, 40.5Mbps, 39Mbps, 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			
<b>FREQUENCY RANGE</b>				
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)			
<b>HOST INTERFACE</b>				
PCI interface v2.3 (Type III-B Mini PCI form factor)				
<b>ANTENNA CONNECTOR</b>				
Three antenna connectors (U.FL)				
<b>MODULATION TECHNIQUES</b>				
OFDM and DSSS				
OFDM: BPSK, QPSK, 16 QAM, 64QAM				
DSSS: DBPSK, DQPSK, CCK				
<b>MODULATION TECHNIQUES</b>				
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)		

Compex Systems Pte Ltd  
135 Joo Seng Road  
#08-01  
PM Industrial Building  
Singapore 368363

Tel: (65) 6288 8220  
Fax: (65) 6280-9947  
www.compex.com.sg

Compex Inc, USA.  
840 Columbia Street  
Suite B Brea. CA 92821

Tel: (714) 482 0333  
Fax: (714) 482-0332  
www.cdx.com



# 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)
--	--------	-----------------------------------------------------------------------------------------------

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)

Compex Systems Pte Ltd  
135 Joo Seng Road  
#08-01  
PM Industrial Building  
Singapore 368363

Tel: (65) 6288 8220  
Fax: (65) 6280-9947  
[www.compex.com.sg](http://www.compex.com.sg)

Compex Inc, USA.  
840 Columbia Street  
Suite B Brea. CA 92821

Tel: (714) 482 0333  
Fax: (714) 482-0332  
[www.cdx.com](http://www.cdx.com)

