Full-size PCIe MINI CARD
WLE350NX

WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER

Features

- Atheros XB116 reference design

- Maximum 20dBm output power(per chain)/ 25dBm(aggregate)

- Single 3.3V power

- IEEE 802.11n compliant and backward compatible with 802.11a/b/g

- Dual-band 3 x 3 MIMO spatial multiplexing technique

- Supports up to 450Mbps physical data rates

- Atheros XSPAN family chipset with SST3™, which increase the link rate by ~100% at short range, ~50% at mid range and ~25% at long range

- Supports Spatial Multiplexing, cyclic-delay diversity (CDD), low-density parity check (LDPC), maximum ratio combining (MRC), space time block code (STBC) and Tx beamforming (TxBF)

- Dynamic Frequency Selection (DFS)

- Multi-Country Roaming Supported (IEEE802.11d Global Harmonization Standard)

- 3 x U.FL Antenna Connector

- Supports 802.11x authentication, 64/128/152Bit WEP, IEEE802.11i encryption

- Supports Windows 7, Windows Vista, Windows XP operating system

Technical Specifications									
Chipset	AR9580/AR9590								
Host Interface	PCI-Express 1.1 Standard								
Operating Voltage	3.3 VDC								
Power Consumption	3.5W								
Antenna Connector	3 x U.FL Antenna Connector								
Data Rate	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								
	IEEE 802.11n :	20MHZ	1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.)						
			2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.)						
			3Nss: 195Mbps @ 800GI, 216.6Mbps @ 400GI (Max.)						
		40MHz	1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)						
			2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.)						
			3Nss: 405.5Mbps @ 800GI, 450Mbps @ 400GI (Max.)						
Frequency Range	IEEE802.11b/g/n:	2.412GHz ~ 2.462GHz (US & Canada)							
		2.412GHz ~ 2.472GHz (Europe)							
		2.412GHz ~ 2.484GHz (Japan)							
	IEEE 802.11a/n:	5.150 ~ 5.350 GHz,5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada)							
		5.150 ~ 5.350 GHz,5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe)							
		5.150 ~ 5.250 GHz,5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)							
Modulation Techniques	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DSSS: DBPSK, DQPSK, CCK								
RoHS Compliance	Yes								
Temperature Range	Operating: -20°C to 70°C Storage: -40°C to 90°C								
Humidity	Operating:5% to 95% (non-condensing) Storage: Max.90% (non-condensing)								
Dimensions	50.95mm x 30 mm x 3.2 mm (H x W x D)								

Compliance Information

FCC Compliance Statement:

This device complies with Part 15 of the FCC Rules . Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation. This device must accept any interference received, including interference that may cause undesired operation. Product that is a radio transmitter is labeled with FCC ID.

FCC Caution*:*

(1) Exposure to Radio Frequency Radiation. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

(2) Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

(3) This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

(4) Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.
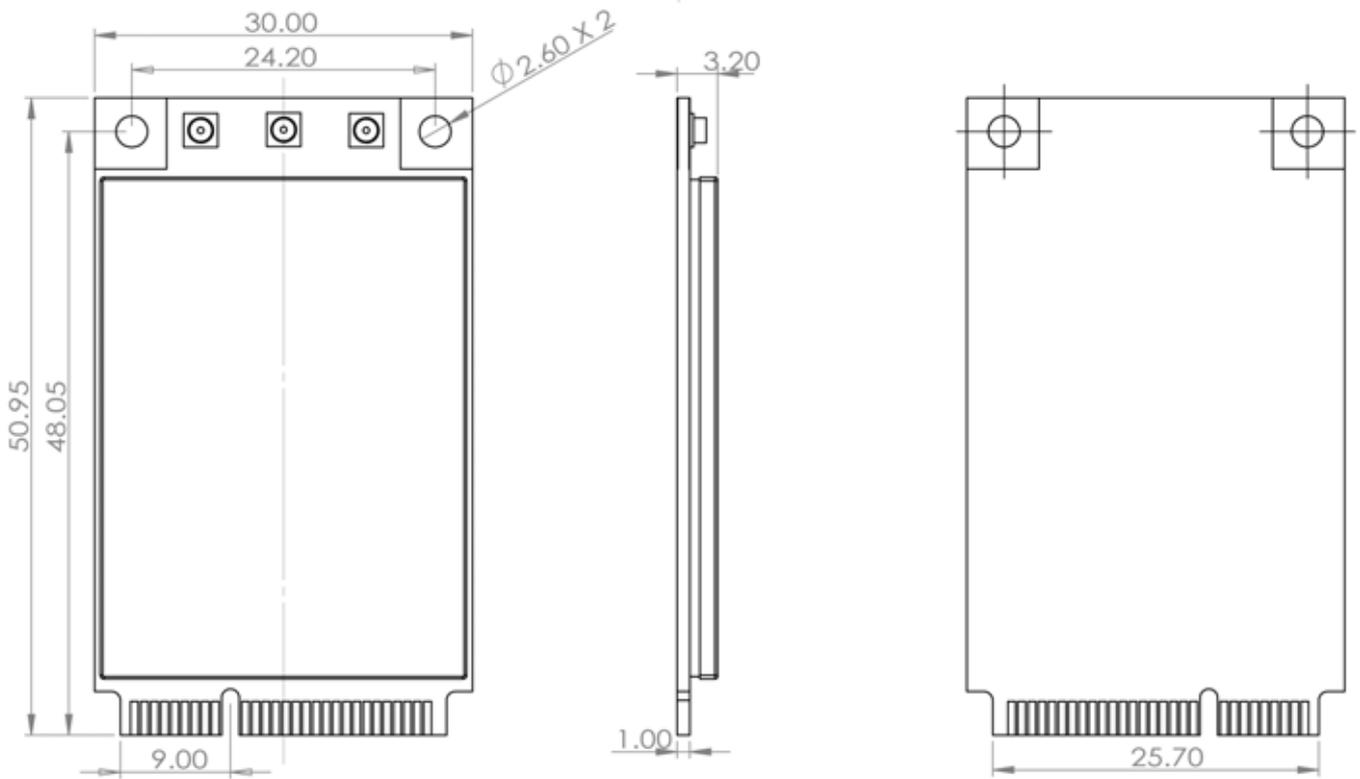
(5) Outdoor Operations in the 5.15~5.25GHz band is prohibited.

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

WARNING: This Wireless Mini PCI Adapter does not support ad-hoc mode Function

FCC ID: TK4WLE350NX

DIMENSIONS DRAWING

30.00
24.20
Ø 2.60 X 2
3.20
50.95
48.05
9.00
1.00
25.70

Compex Systems Pte Ltd
135 Joo Seng Road, PM Industrial Building #08-01,
Singapore 368363
Tel: (65) 6286 2086
Fax: (65) 6280-9947
Email: sales@compex.com.sg

Compex (Suzhou) Co Ltd
NO.12, ChuangTou Industrial Square,
LouFeng North, Suzhou Industrial Park,
Suzhou, Jiangsu Province, China 215122
Tel: (86)-512-62950050
Fax: (86)-512-62950026

For more information, visit www.compex.com.sg

(1) The modules FCC ID is not visible when installed in the host, or

(2) If the host is marketed so that end users do not have straight forward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module: Contains Transmitter Module FCC ID: TK4WLE350NX or Contains FCC ID: TK4WLE350NX must be used.