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Full-size PCIe MINI CARD WLE350NX

Dual-band 802.11n MIMO 3 x 3 mini PCIe

Features

- Atheros XB116 reference design
- Maximum 19dBm output power(per chain)/ 24dBm(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: -20ºC to 70ºC Storage: -40ºC to 90ºC									
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)									

WLE350NX PCIe Mini CARD RADIO									
TX SPECIFICATIONS									
	DataRate	**TX Power** (per chain)	**TX Power** (3 chains)	**Tolerance**			**DataRate**	**TX Power** (per chain)	**TX Power** (3 chains)	**Tolerance**
802.11a	6Mbps	19dBm	24dBm	±2dB		**802.11b/g**	6Mbps	19dBm	24dBm	±2dB
	54Mbps	15dBm	20dBm	±2dB			54Mbps	16dBm	21dBm	±2dB
	DataRate	**TX Power** (per chain)	**TX Power** (3 chains)	**Tolerance**			**DataRate**	**TX Power** (per chain)	**TX Power** (3 chains)	**Tolerance**
2.4GHz 11n HT20	MCS 0	18dBm	23dBm	±2dB		**2.4GHz 11n HT40**	MCS 0	17dBm	22dBm	±2dB
	MCS 7	15dBm	20dBm	±2dB			MCS 7	14dBm	19dBm	±2dB
	MCS 8	18dBm	23dBm	±2dB			MCS 8	17dBm	22dBm	±2dB
	MCS 15	15dBm	20dBm	±2dB			MCS 15	14dBm	19dBm	±2dB
	MCS 16	18dBm	23dBm	±2dB			MCS 16	17dBm	22dBm	±2dB
	MCS 23	14dBm	19dBm	±2dB			MCS 23	13dBm	18dBm	±2dB
5GHz 11n HT20	MCS 0	18dBm	23dBm	±2dB		**5 GHz 11n HT40**	MCS 0	17dBm	22dBm	±2dB
	MCS 7	13dBm	18dBm	±2dB			MCS 7	12dBm	17dBm	±2dB
	MCS 8	18dBm	23dBm	±2dB			MCS 8	17dBm	22dBm	±2dB
	MCS 15	13dBm	18dBm	±2dB			MCS 15	12dBm	17dBm	±2dB
	MCS 16	18dBm	23dBm	±2dB			MCS 16	17dBm	22dBm	±2dB
	MCS 23	12dBm	17dBm	±2dB			MCS 23	11dBm	16dBm	±2dB

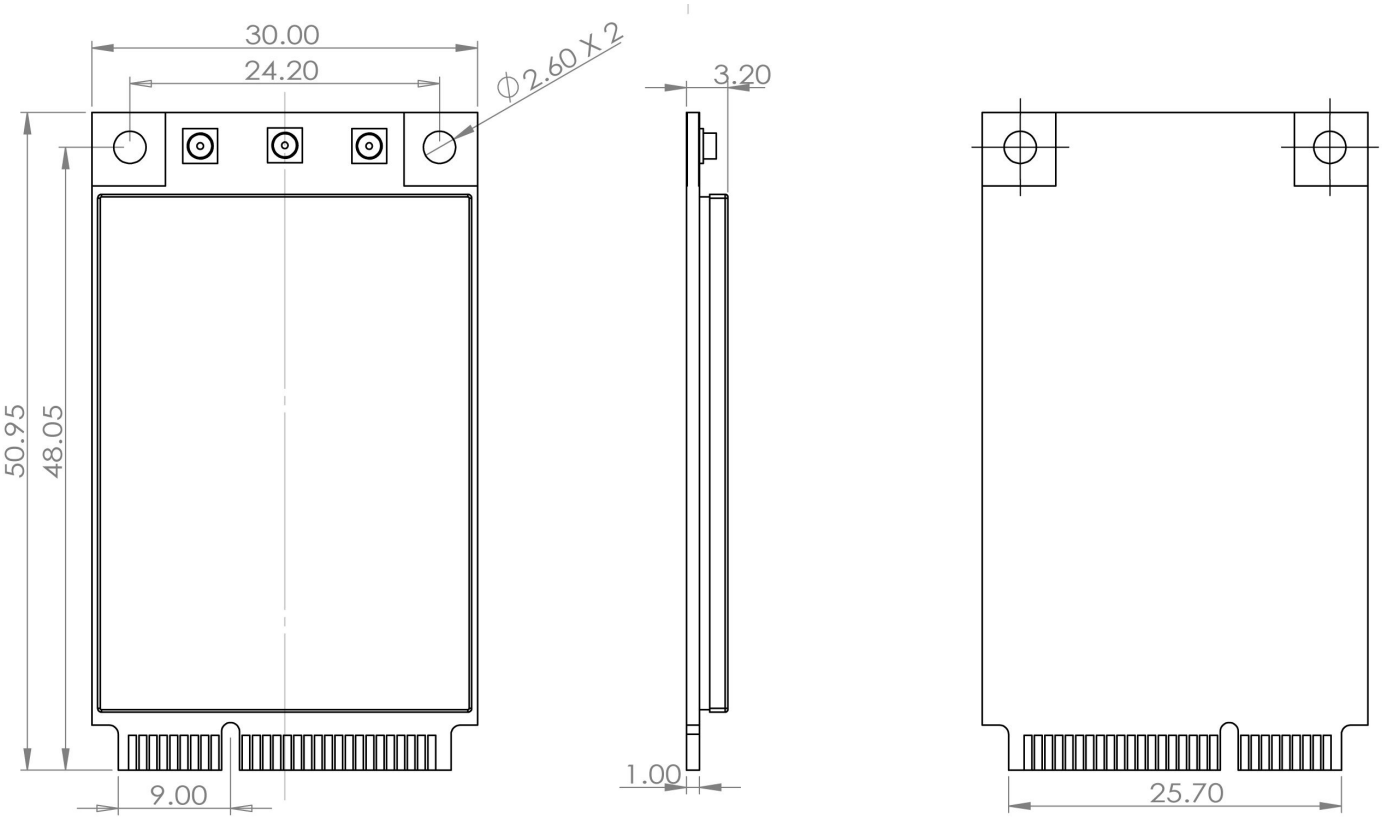
RX SPECIFICATIONS								
	DataRate	**Sensitivity**	**Tolerance**			**DataRate**	**Sensitivity**	**Tolerance**
802.11a	6M	-94dBm	±2dB		**802.11g**	6M	-95dBm	±2dB
	54M	-81dBm	±2dB			54M	-81dBm	±2dB
2.4GHz 11n HT20	MCS 0	-95dBm	±2dB		**2.4GHz 11n HT40**	MCS 0	-91dBm	±2dB
	MCS 7	-76dBm	±2dB			MCS 7	-73dBm	±2dB
	MCS 8	-92dBm	±2dB			MCS 8	-90dBm	±2dB
	MCS 15	-73dBm	±2dB			MCS 15	-71dBm	±2dB
	MCS 16	-91dBm	±2dB			MCS 16	-89dBm	±2dB
	MCS 23	-71dBm	±2dB			MCS 23	-69dBm	±2dB
5 GHz 11n HT20	MCS 0	-94dBm	±2dB		**5 GHz 11n HT40**	MCS 0	-91dBm	±2dB
	MCS 7	-76dBm	±2dB			MCS 7	-71dBm	±2dB
	MCS 8	-93dBm	±2dB			MCS 8	-89dBm	±2dB
	MCS 15	-73dBm	±2dB			MCS 15	-69dBm	±2dB
	MCS 16	-91dBm	±2dB			MCS 16	-87dBm	±2dB
	MCS 23	-71dBm	±2dB			MCS 23	-67dBm	±2dB

Ordering Informaion①

Model Code	Form Factor	Chipset	CARD INFORMATIONS
WLE350NX 7A0000	Full Size	AR9580	802.11 a/b/g/n PCIe mini card
WLE350NX 7B0000	Full Size	AR9590	802.11 a/b/g/n PCIe mini card

① Configurations are subject to change without notice，
Please contact Compex sales representatives for other available configurations

DIMENSIONS DRAWING



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