



High Power Mini PCIe Radio WLE350N5-25

5GHz 3x3 MIMO mini PCIe

Features

- Maximum 25dBm output power(per chain)/ 30dBm(aggregate)
- IEEE 802.11n compliant and backward compatible with 802.11a
- 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)
- 5V supply needed to miniPCI slot or on-board jumper
- Heatsink for reliability
- 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	5 VDC									
Power Consumption	5W									
Antenna Connector	3 x U.FL Antenna Connector									
Data Rate	IEEE 802.11a :	54Mbps	48Mbps	36Mbps	24Mbps	18Mbps	12Mbps	9Mbps	6Mbps	
	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.)							
	IEEE 802.11a/n:	3Nss: 405.5Mbps @ 800GI, 450Mbps @ 400GI (Max.)								
		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									
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 58.7 mm x 8.4 mm (H x W x D)									

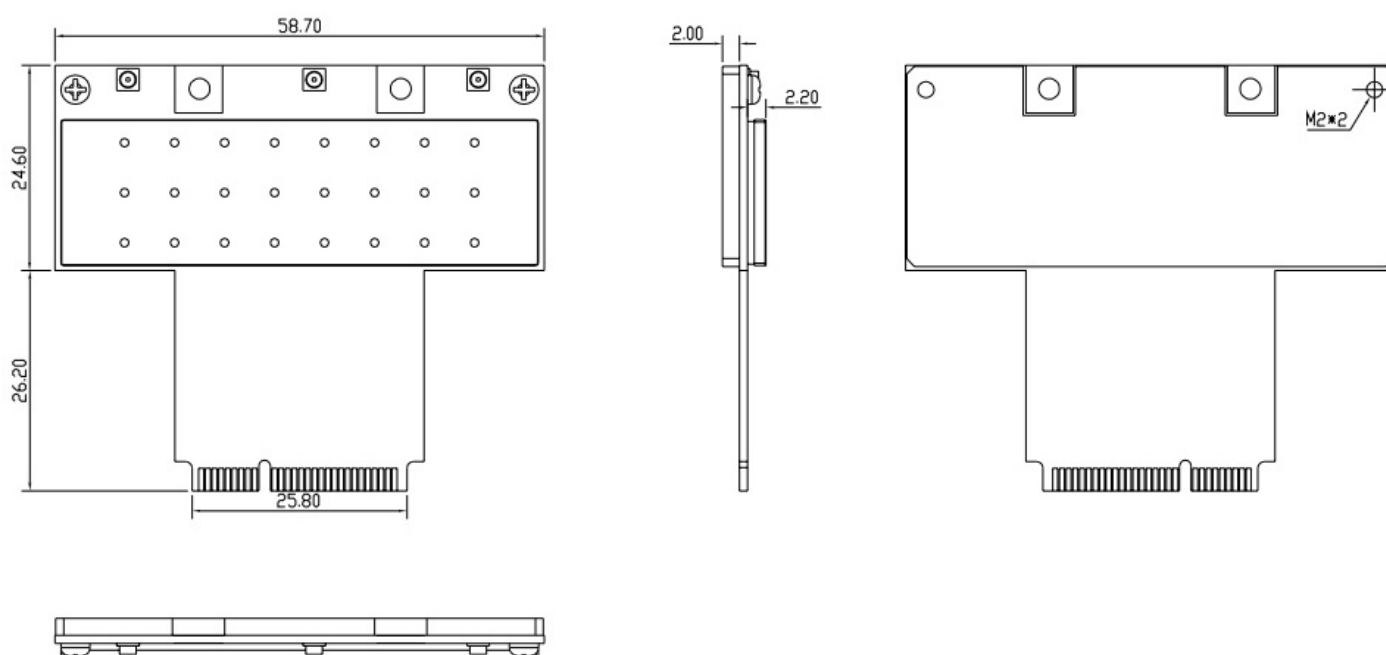
WLE350N5-25 PCIe Mini CARD RADIO										
TX SPECIFICATIONS										
	DataRate	TX Power (per chain)	TX Power (3 chains)	Tolerance			DataRate	TX Power (per chain)	TX Power (3 chains)	Tolerance
802.11a	6Mbps	25dBm	30dBm	±2dB		802.11a	54Mbps	25dBm	30dBm	±2dB
	DataRate	TX Power (per chain)	TX Power (3 chains)	Tolerance	5 GHz 11n HT40		DataRate	TX Power (per chain)	TX Power (3 chains)	Tolerance
5GHz 11n HT20	MCS 0	25dBm	30dBm	±2dB		MCS 0	25dBm	30dBm	±2dB	
	MCS 7	24dBm	29dBm	±2dB		MCS 7	24dBm	29dBm	±2dB	
	MCS 8	25dBm	30dBm	±2dB		MCS 8	25dBm	30dBm	±2dB	
	MCS 15	24dBm	29dBm	±2dB		MCS 15	24dBm	29dBm	±2dB	
	MCS 16	25dBm	30dBm	±2dB		MCS 16	25dBm	30dBm	±2dB	
	MCS 23	24dBm	29dBm	±2dB		MCS 23	24dBm	29dBm	±2dB	
RX SPECIFICATIONS										
	DataRate	Sensitivity	Tolerance			DataRate	Sensitivity	Tolerance		
802.11a	6M	-94dBm	±2dB		802.11a	54M	-81dBm	±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 Informaion®

Model Code	Chipset	Power	CARD INFORMATIONs
WLE350N5-25 8A0000	AR9580	30dBm(aggregate)	802.11 a/n PCIe mini card
WLE350N5-25 8B0000	AR9590	30dBm(aggregate)	802.11 a/n PCIe mini card

- ① Depends on Order Configuration
 ② Configurations are subject to change without notice,
 Please contact Compex sales representatives for other available configurations

DIMENSIONS DRAWING



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