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1-3. Specifications Table

Model Name	AW-NH387L
Product Description	**Wireless LAN Module IC**
WLAN Standard	IEEE 802.11b/g/n, Wi-Fi compliant
Host Interface	SDIO for WLAN
Major Chipset	Marvell 8787L
Dimension	9.6mm x 9.6mm x 1.2mm
Weight	Less than 10 grams
Package	LGA
Operating Conditions	
Voltage	3.3V/2.6V/1.8V+/- 10%
Temperature	Operating: -20 ~ 70°C ; Storage: -40 ~ 85°C
Electrical Specifications	
Frequency Range	2.4 GHz ISM radio band
Number of Channels	802.11b: USA, Canada and Taiwan – 11 Most European Countries – 13 France – 4, Japan – 14 802.11g: USA, Canada and Taiwan – 11 Most European Countries – 13 Japan – 13 802.11n(HT20): Channel 1~11(2412~2462),USA, Canada and Taiwan–11 802.11n(HT40): Channel 3~9(2422~2452),USA, Canada and Taiwan–9
Modulation	DSSS, OFDM, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM for WLAN
Output Power	802.11b(Ch1~11): typical 17dBm +/- 2dBm (AV);19dBm +/- 2dBm (PK) 802.11b(Ch14): typical 10dBm +/- 2dBm (AV);20dBm +/- 2dBm (PK) 802.11g(Ch1~11): typical 14dBm +/- 2dBm (AV) 802.11n: typical HT20(Ch1~11) 13dBm +/- 2dBm (AV);19dBm +/- 2dBm (PK) HT40(Ch3~9) 12dBm +/- 2dBm (AV);19dBm +/- 2dBm (PK)
Antenna	One WLAN RF on pad
Receive Sensitivity	802.11b: Minimum -86+-2dBm at 11Mbps 802.11g: Minimum -71+-2dBm at 54Mbps 802.11n: Minimum -68+-2dBm at HT20 MCS7 Minimum -65+-2dBm at HT40 MCS7
Medium Access Protocol	CSMA/CA with ACK
Data Rates	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n up to 150Mbps
Power Consumption	Please reference Azurewave AW-NH387L power consumption test report
Operating Range	Open Space: ~300m ; Indoor: ~100m for WLAN The transmission speed may vary according to the environment
Security	◆ WAPI ◆ WEP 64-bit and 128-bit encryption with H/W TKIP processing ◆ WPA/WPA2 (Wi-Fi Protected Access) ◆ AES-CCMP hardware implementation as part of 802.11i security standard

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