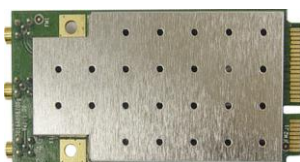


## Features:

- **Standard: 802.11b/g/n**
- **Interface: Mini PCI Express**
- **Chipset: Atheros AR9590-AR1A**
- **Operating voltage: PCIe: DC 3.3V ± 5% (PA: extended DC 5V)**
- **Antenna: 3 x MMCX Connectors**
- **Output power up to 29dBm**
- **Data rate up to 450Mbps**
- **Enhanced wireless security : 64/128- bits WEP, WPA, WPA2**
- **Support Linux**

# WPEA-350GNH

802.11 b/g/n High-Power Mini Card



<b>System</b>	
Standard	802.11b/g/n
Chipset	Mac/BB/RF: Qualcomm Atheros AR9590-AR1A
Host Interface	PCI express
Form Factor	Mini PCIe ( Mini Card )
Data Rates	802.11b: 1~11 Mbps / 802.11g: 6~54 Mbps 802.11gn (HT20): MCS0 ~ MCS23 / 802.11gn (HT40): MCS0 ~ MCS23
Antenna	3 x MMCX connector s
Operating Frequency	b/g/n ISM Band: 2.412~2.472GHz
Modulation	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16-QAM, 64-QAM ) 802.11n: OFDM (BPSK, QPSK,16-QAM, 64-QAM )
Output Power (3T)	802.11b: 29dBm ± 2dBm@11Mbps 802.11g: 24dBm ± 2dBm@54Mbps 802.11gn HT20: 23dBm ± 2dBm@MCS7 802.11gn HT40: 23 dBm ± 2dBm@MCS7
Receive Sensitivity (3R)	802.11b: -88dBm ± 2dBm@11Mbps 802.11g: -74dBm ± 2dBm@54Mbps 802.11gn HT20: -72dBm ± 2dBm@MCS7 802.11gn HT40: -69dBm ± 2dBm@MCS7
Power consumption Continue TX /RX/ Idle	1600mA / 350m A / 50mA
Operating Voltage	PCIe slot: DC 3.3V ± 5% PA: extended 5V power supply (pin 49, pin 51)
Temperature Range	0 ~ 60°C (Operating) / -45~85°C (Storing)
Humidity (Non-Condensing)	10% ~ 85% (Operating) / 5% ~ 90% (Storing)
Dimensions	31mm x 58mm x 11mm
Weight	≤10g
Driver	Linux
Security	64/128- bits WEP, WPA, WPA2

## Pin Assignment

Pin#	Pin Name	Description	Pin#	Pin Name	Description
1	WAKE_L	YES	2	+3.3V	YES
3	RESERVED	NC	4	GND	YES
5	RESERVED	NC	6	+1.5V	NC
7	CLKREQ_L	YES	8	UIM_PWR	NC
9	GND	YES	10	UIM_DATA	NC
11	REFCLK-	YES	12	UIM_CLK	NC
13	REFCLK+	YES	14	UIM_RESET	NC
15	GND	YES	16	UIM_VPP	NC
17	UIM_C8	NC	18	GND	YES
19	UIM_C4	NC	20	W_DISABLE_L	YES
21	GND	YES	22	PERST_L	YES
23	PERn0	YES	24	+3.3V	NC
25	PERp0	YES	26	GND	YES
27	GND	YES	28	+1.5V	NC
29	GND	YES	30	SMB_CLK	NC
31	PETn0	YES	32	SMB_DATA	NC
33	PETp0	YES	34	GND	YES
35	GND	YES	36	USB_D-	NC
37	RESERVED	NC	38	USB_D+	NC
39	3.3V	YES	40	GND	NC
41	3.3V	YES	42	LED_WWAN_L	NC
43	GND	YES	44	LED_WLAN_L	Optional
45	RESERVED	NC	46	LED_WPAN_L	NC
47	RESERVED	NC	48	+1.5V	NC
49	VDDAS_PA(Ext end DC5V)	Note	50	GND	YES
51	VDDAS_PA(Ext end DC5V)	Note	52	+3.3V	YES

**Note: Pin 49 & 51 need extra DC 5V voltage. \*Specifications are subject to change without notice**