



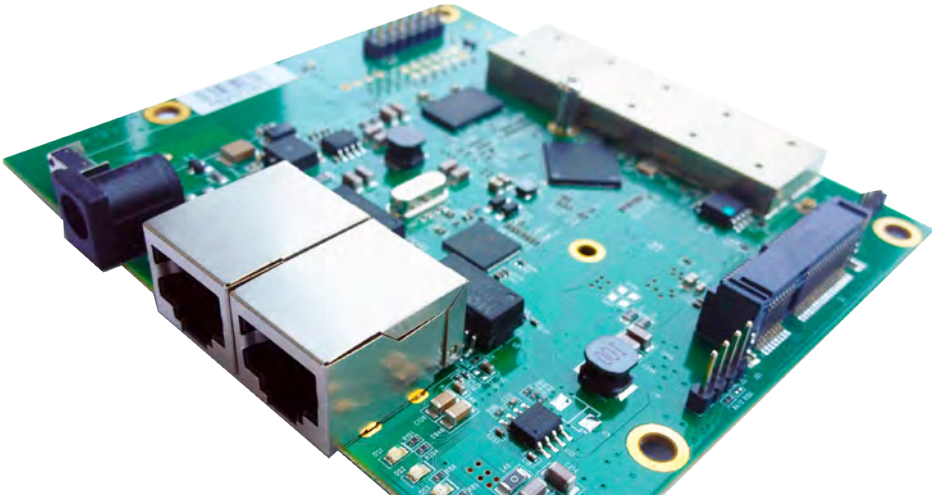
Wireless Embedded Boards

WIRELESS EMBEDDED BOARDS



Cost Effective Solutions

THE WPJ342



WPJ342 is a capable and reliable wireless embedded board based on the Qualcomm Atheros AR9342 CPU. It features a 560MHz network processor and integrates a 2x2 internal on-board radio and 1 miniPCI slot that supports 802.11n radio. Embedded with 64MB memory and 16MB Flash, WPJ342 provides the ideal platform for any applications. WPJ342 has integrated Power over Ethernet (PoE) features that allows WPJ342 to be used in areas where power outlets are not readily available.



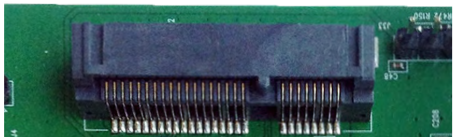
560Mhz CPU

Powered by Qualcomm Atheros AR9342 Wireless System on Chip (WiSoC)



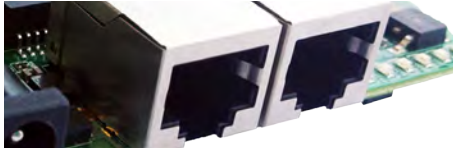
5Ghz 2x2 802.11n

WPJ342 features on-board single band 2x2 5Ghz 802.11n Wireless with speeds up to 300Mbps



MiniPCI-e Slot

Further expansion of Wireless Capabilities with the MiniPCI-e Slot, also support Cellular Card*



Dual 10/100 LAN

With Dual on-board FE or 10/100 RJ45 LAN Ports, allowing a WAN & LAN configuration or Dual LAN as well.



24V Passive PoE

WPJ342 support 24V Passive Power over Ethernet



Buzzer & LED Pin

Monitor WPJ342 performance and development with the on-board buzzer and 4 LED Pins.

Technical Specifications

Processor	Qualcomm-Atheros AR9342	Firmware	CompexWRT or OpenWRT
System Memory	64MB DDR2	On-board Wireless	2 x 2 MIMO 802.11n
NOR Flash	16MB	Operating Frequency	5.180 - 5.825Ghz
PCIe Slot	9.2m height minPCIe slot	Maximum Wireless Speed	300Mbps
Ethernet	2 x FE Port with Auto MDI/X	On-board Radio Power	26dBm (aggregate)
Extras	LED Pins, Serial Port, JTAG, Reset Button, Surge Arrestor, Watchdog Timer	On-board Radio Antenna Connector	2 x U.F L
Power	DC Jack & Passive PoE or IEEE 802.3af*	*802.3af only available on WP342HV models	
Power Consumption	5.5W		
RoHS Compliance	Yes		
Humidity	Operating: 5% to 95%		
Temperature Range	Operating: -20°C to 70°C Storage: -40°C to 90°C		
Dimension	95 x 105 x 18mm (W x D x H)		

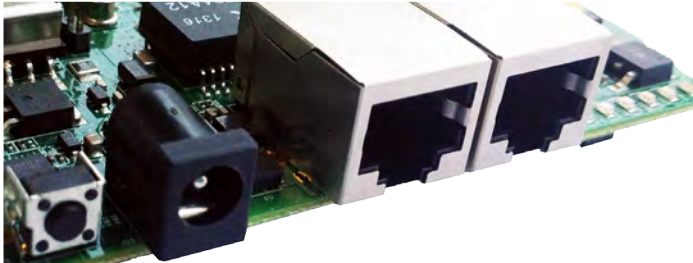


SIM Enabled PIN

With a On-board allowing a SIM card slot further expanding its usage beyond its 802.11n capabilities



WPJ342 EXPANSIONS

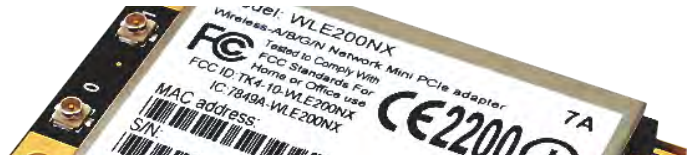


Add 3G/4G Radio



WPJ342 support third-party 3G/4G miniPCI-e Radio Modules for Effective Machine to Machine (M2M) communication to widen your network with ease.

Add Wireless Radio



WPJ342 support Compex 802.11n miniPCI-e Radio Modules to enable Dual Band support.

Upgrade to 802.3af
WPJ342 is available with either Passive PoE or IEEE 802.3af Support

Default Passive PoE Model:

- **WPJ342LV**
- DC Jack 12 - 24V
- 24V Passive Power Over Ethernet

IEEE 802.3af Model:

- **WPJ342HV**
- DC Jack 24 - 48V
- IEEE 802.3af PoE
- 24V Passive PoE

WPJ342 BOARD DIMENSIONS

Item Code	Width	Depth	Height
WPJ342LV 7A5PCW164AR-BP	105 mm	95 mm	13.5 mm
WPJ342HV 7A5PCW164AR-BP	105 mm	95 mm	16 mm

WPJ342 EXTERNAL WIRELESS MODULE COMPATIBILITY

Model	Wireless Band	Operating Frequency	Channels	Connector
Compex WLE200NX	802.11a/b/g/n	2.4Ghz / 5Ghz	2 x 2 MIMO	2 x U.FL
Compex WLE350NX	802.11a/b/g/n	2.4Ghz / 5Ghz	3 x3 MIMO	3 x U.FL
Compex WLE200N2-23	802.11b/g/n	2.4Ghz	2 x 2 MIMO	2 x U.FL
Compex WLE250NX	802.11a/b/g/n	2.4Ghz / 5Ghz	2 x 2 MIMO	2 x U.FL

WPJ342 ORDERING INFORMATION

Item Code	Firmware	Processor	Power Solutions	NOR Flash	Memory
WPJ342LV 7A5PCW164AR-BP	CompexWRT	AR9342	DC Jack 12 - 24V + 24V Passive PoE	16MB	64MB
WPJ342HV 7A5PCW164AR-BP	CompexWRT	AR9342	DC Jack 24 - 48V + PoE 802.3af	16MB	64MB

WPJ342 PACKAGING INFORMATION

Carton Dimension	Dimension	Weight	Dimensional Weight
Packaging Box (50pcs)	871 x 320 x 190mm	6.135kg	11kg