

Dual Radio Embedded Board

Model: WPJ342

FEATURES

- CompexWRT and OpenWRT firmware supported
- Qualcomm-Atheros 560MHz Networking Processor
- Dual Radio Solution (one 2x2 11n 5Ghz on-board radio and one miniPCIe slot that supports all Compex 802.11n WLE series)
- Integrated Passive PoE (alternative 802.3af PoE available)
- Support 2 x FE Port

APPLICATIONS

- Dual Band, Dual Concurrent AP
- 802.11a/n+802.11b/g/n AP
- Point to Point / Point to MultiPoint
- Base Station
- CPE

TECHNICAL SPECIFICATION

SYSTEM INFORMATION			
Processor	Qualcomm-Atheros AR9342		
System Memory	64MB DDR2		
NOR Flash	8MB (max 16MB optional) ¹		
PCIe Slot	9.2mm height miniPCIe slot		
Antenna Connector	2 x U.FL		
5GHz On-board Radio	Transmit Power	Data Rate	Aggregate Power
		HT20 MCS0	25dBm
		HT20 MCS7	19dBm
		HT40 MCS0	24dBm
		HT40 MCS7	19dBm
	Receiver Sensitivity	Data Rate	5GHz
		HT20 MCS0	-94dBm
		HT20 MCS7	-77dBm
		HT40 MCS0	-93dBm
		HT40 MCS7	-75dBm

Ethernet	2 FE ports with Auto-MDI/X	
Extras	Serial Port ² , JTAG ³ , Reset Button, Surge Arrestor, Watchdog Timer	
Power Solutions	High voltage	DC Jack Input: 12-24V, Passive PoE: 36-48V, IEEE 802.3af PoE
	Low voltage	DC Jack Input: 12-24V, Passive PoE: 12-24V
PoE Injector Compatibility		IEEE 802.3af/at injectors (both end span and mid span) Passive injectors
Power consumption (board only)		4W
ROHS Compliance		Yes
Humidity		Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)
Temperature Range		Operating: -20°C to 70°C Storage: -40°C to 90°C
Dimension		95 X 105 x 18 (mm)

ORDERING INFORMATION

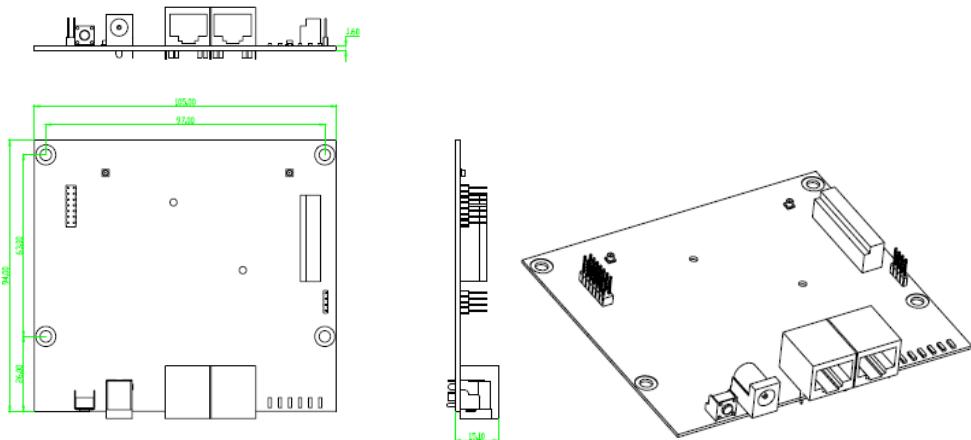
Item Code	Version	Processor	L/H voltage Power Solutions	NOR Flash	Memory	Socket Height
WPJ342HV 7A05PCW864AR	Compex-WRT	AR9342	High Voltage (48V)	8MB	64MB	9.2mm
WPJ342LV 7A05PCW864AR		AR9342	Low Voltage (24V)			

¹ Depends on Order Configurations

² Serial Port is a 4-pin header (TTL) + Serial Converter is available to change the TTL signals on board to RS232 signals for debugging. Configurations are subject to change without notification.

³ JTAG Port is a 14-pin header + JTAG kit is for writing your own developed loader and firmware directly

DIMENSION DRAWING



RELATED PRODUCTS

802.11 b/g/n 2.4GHz miniPCIe	WLE350NX	WLE200NX	WLE200N2-23
Passive injector PoE Plus	POE Plus - Output Voltage: 24VDC - Max Output Watts: 12W	PoE2405 - Output Voltage: 24VDC - Max Output Watts: 12W	

For 5150-5250MHz frequency band, the model WPJ342 just use the antenna which antenna gain is less than 15dBi. For 5725-5850MHz frequency band, the model WPJ342 just use the antenna which antenna gain is less than 25dBi. Before of use, the product and antennas should be installed by the Professional installers.

Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 96.47 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.