Dual Radio Gigabit Embedded Board

Model: WPJ344

FEATURES

- CompexWRT and OpenWRT firmware supported
- Qualcomm-Atheros 533MHz Networking Processor
- Dual Radio Solution (on-board abgn radio and 1 miniPCIe slot that supports all Compex WLE series, including 802.11ac radio)
- Integrated 48V 802.3af (alternative 24V PoE available)
- Support 2 x Gigabit Ethernet Port

Optional: support USB Extension

APPLICATIONS

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

TECHNICAL SPECIFICATIONS

SYSTEM INFORMATION			
Processor	Qualcomm-Atheros AR9344 MIPS 74Kc		
System Memory	128MB DDR2		
NOR Flash	8MB (max 16MB optional)[1]		
PCIe Slot	9.2mm height miniPCIe slot		
Antenna Connector	2 x U.FL		
On-board Radio	Transmit Power	Data Rate	2.4GHz (aggregate)	5GHz (aggregate)
		6M	18dBm	15dBm
		54M	13dBm	11dBm
		HT20 MCS0	17dBm	15dBm
		HT20 MCS7	13dBm	10dBm
		HT40 MCS0	16dBm	15dBm
		HT40 MCS7	13dBm	10dBm
	Receiver Sensitivity	Data Rate	2.4GHz	5GHz
		6M	-90dBm	-90dBm
		54M	-75dBm	-74dBm
		HT20 MCS0	-90dBm	-90dBm
		HT20 MCS7	-72dBm	-71dBm
		HT40 MCS0	-88dBm	-88dBm
		HT40 MCS7	-70dBm	-70dBm

Ethernet	2 Gigabit ports with Auto-MDI/X
Extras	Serial Port[2], JTAG[3], Reset Button, Surge Arrestor, Watchdog Timer
Power Solutions — High voltage	DC Jack Input:24-48V, Passive PoE: 24-48V, IEEE 802.3af PoE
Power Solutions — Low voltage	DC Jack Input: 9-24V, Passive PoE: 12-24V
PoE Injector Compatibility	IEEE 802.3af/at injectors(both end span and mid span) Passive injectors
Power consumption (board only)	5W
ROHS Compliance	Yes
Humidity	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)
Temperature Range	Operating: -20ºC to 70ºC Storage: -40ºC to 90ºC
Dimension	117 x 105 x 17 (mm)

ORDERING INFORMATION

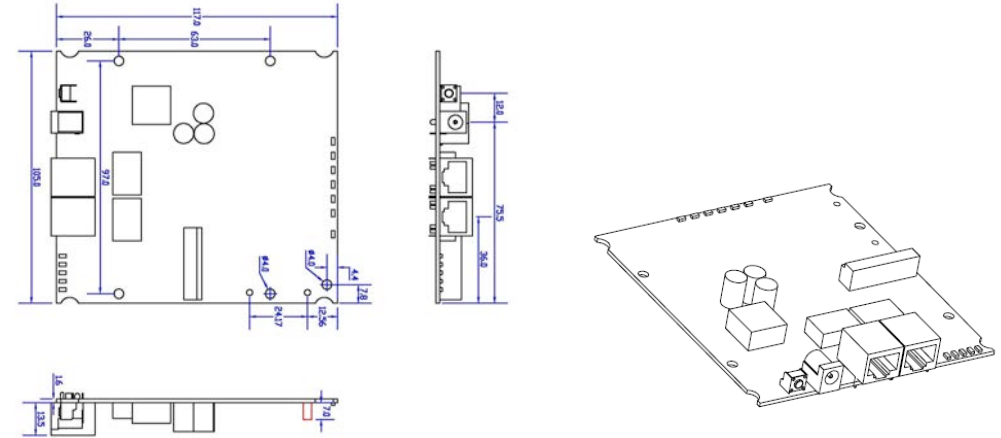| Item Code	Version	Processor	L/H voltage Power Solutions	NOR Flash	Memory	Socket Height
WPJ344HV 6A03PC8128BR	Compex-WRT	AR9344	High Voltage (48V)	8MB	128MB	9.2mm
WPJ344LV 6A03PC8128BR		AR9344	Low Voltage (24V)			

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[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 subjec to change without notification.
[3] JTAG Port is a 14-pin header + JTAG kit is for writing your own developed loader and firmware directly

RELATED PRODUCTS

802.11ac 5GHz miniPCIe	WLE900N5-18	WLE900N5-20	WLE900N5-23
Gigabit Power over Ethernet	POE2408	- Output Voltage: 24VDC - Max Output Watts: 19W	
USB Extension		- 2 x USB 2.0 ports - 1 x miniPCIe-based USB 2.0 only interface (e.g. 3G modems)	

DIMENSION DRAWING

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