Dual Band Wireless Embedded Board
Model: YBT531

Features

- CompexWRT and OpenWRT firmware supported

- Qualcomm-Atheros 650MHz Networking Processor AR9531

- Dual Radio Solution (one on-board radio and one miniPCIe slot that supports all Compex 802.11ac/abgn WLE series)

- Integrated Power-over-Ethernet

- Support 2 x FE Port

Applications

- Dual Band, Dual Concurrent AP

- 802.11a/n+802.11b/g/n AP

- 802.11ac+802.11b/g/n AP

- Point to Point / Point to MultiPoint

- Base Station

- CPE

- Support Third Party 3G/LTE Module and SIM holder(optional[1])

Technical Specifications

System Information	
Processor	Qualcomm-Atheros AR9531
System Memory	64MB DDR2
NOR Flash	16MB
PCIe Slot	9.2mm height miniPCIe slot
Antenna Connector	2 x U.F L
Extras	Serial Port[3], JTAG[4], Reset Button, Surge Arrestor, Watchdog Timer

Power Solutions	Low voltage	DC Jack Input: 9 -24V, Passive PoE: 24V
	High voltage	IEEE 802.3af module(Optional)[5],DC Jack input:36-48V, Passive PoE:48v, compatible with802.3af/802.3at PoE switches and injectors

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)

2.4G On-board Radio	**Transmit Power**	Data Rate	2.4GHz (aggregate)
		6M	26dBm
		54M	20dBm
		HT20 MCS0	25dBm
		HT20 MCS7	20dBm
		HT40 MCS0	24dBm
		HT40 MCS7	20dBm
	Receiver Sensitivity	Data Rate	
		6Mbps	-90dBm
		54Mbps	-75dBm
		HT20 MCS0	-90dBm
		HT20 MCS7	-72dBm
		HT40 MCS0	-88dBm
		HT40 MCS7	-70dBm

Max of concurrent associations	Encryption	Client Latency	TCP [each client upload and download randomly from 384Kbps to 768Kbps]		UDP [each client upload and download 2Mbps]	
	WPA2-PSK	<100ms	Single radio	Dual radio	Single radio	Dual radio
			40 clients	70clients (35 per radio)	20 clients	30clients (15 per radio)

1 miniPCIe slot with USB Co-layout,can support SIM holder
2 Depends on ordering configuration
3 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
4 JTAG Port is a 14-pin header + JTAG kit is for writing your own developed loader and firmware directly
5 This is a factory option to turn YBT531LV to YBT531HV It is compatible with 802.3af/802.3at PoE switches and injectors