

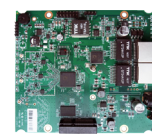
Embedded Board

Catalogue



Revision:200318

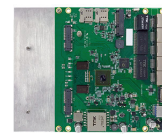
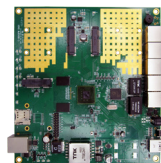
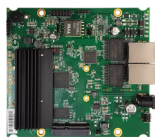
Comparison Chart



HARDWARE SPECIFICATIONS

TYPE OF BOARD	Cost Effective	Cost Effective	Reliable Performance	Powerful Enterprise	Affordable Enterprise
MODEL	WPJ342	WPJ531	WPJ344	WPJ558	WPJ563
PROCESSOR	Qualcomm Atheros AR9342	Qualcomm Atheros QCA9531	Qualcomm Atheros AR9344	Qualcomm Atheros QCA9558	Qualcomm Atheros QCA9563
CPU SPEED	560MHz	650MHz	560MHz	700MHz	775MHz
DDR3 SYSTEM MEMORY	N.A	N.A	N.A	N.A	N.A
NAND FLASH	64MB	64MB	128MB	128MB	128MB
NOR FLASH	16MB	16MB	16MB	16MB	16MB
WIRELESS	2x2 MIMO 802.11n	2x2 MIMO 802.11n	2x2 MIMO 802.11n	3x3 MIMO 802.11n	3x3 MIMO 802.11n
OPERATING FREQUENCY	5GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz
WIRELESS SPEED	300Mbps	300Mbps	300Mbps	450Mbps	450Mbps
WIRELESS OUTPUT POWER	23dBm Per Chain	23dBm Per Chain	23dBm Per Chain	23dBm Per Chain	23dBm Per Chain
EXPANSION	1x 9.2mm height MiniPCIe Slot	1x 9.2mm height MiniPCIe Slot	1x 9.2mm height MiniPCIe Slot	1x 9.2mm height MiniPCIe Slot	1x 9.2mm height MiniPCIe Slot
ETHERNET	2x FE with Auto MDI-X	2x FE with Auto MDI-X	2x GE Port with Auto MDI-X	2x GE Port with Auto MDI-X	2x GE Port with Auto MDI-X
POWER OPTION	DC Jack, Passive 24V PoE or IEEE 802.3af	DC Jack, Passive 24V PoE or IEEE 802.3af	DC Jack, Passive 24V PoE or IEEE 802.3af/at	DC Jack, IEEE 802.3af/at	DC Jack, IEEE 802.3af/at
POWER CONSUMPTION	5 W (Max)	6.9 W (Max)	7W (Max)	8.6 W (Max)	9.96W (Board Only)
OPENWRT SUPPORT	✓	✓	✓	✓	✓
CONSOLE RJ45 PORT	✗	✗	✗	✗	✗
SERIAL PIN	✓	✓	✓	✓	✓
JTAG	✓	✓	✓	✓	✓
RESET BUTTON	✓	✓	✓	✓	✓
SURGE SUPPRESSOR	✓	✓	✓	✓	✓
LED INDICATORS	✓	✓	✓	✓	✓
SIM HOLDER	Optional	Optional	✗	✗	✓
DUAL SIM HOLDER	✗	✗	✗	✗	✗
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	FCC, CE, RoHS Compliance	FCC, CE, RoHS Compliance	FCC, CE, RoHS Compliance	FCC, CE, RoHS Compliance	RoHS Compliance
DIMENSION (W x H x D)	105 x 95 x 18 mm	117 x 105 x 17 mm	117 x 105 x 17 mm	117 x 105 x 17 mm	117 x 105 x 17.7 mm

Comparison Chart



HARDWARE SPECIFICATIONS

TYPE OF BOARD	Affordable High Power	Affordable IIac Wave 2	Next Gen Versatility	Multi-function
MODEL	WPJ564	WPJ428	WPQ864	WPQ865
PROCESSOR	Qualcomm Atheros QCA9563	Qualcomm Atheros IPQ4028	Qualcomm Atheros IPQ8064	Qualcomm Atheros IPQ8065
CPU SPEED	775MHz	710MHz	1.4GHz	1.7GHz
DDR3 SYSTEM MEMORY	N.A	256MB	1GB	1GB
NAND FLASH	128MB	128MB	256MB	256MB
NOR FLASH	16MB	16MB	32MB	32MB
WIRELESS	3x3 MIMO 802.11n	2x2 MU-MIMO 802.11ac Wave 2	N.A	N.A
OPERATING FREQUENCY	2.4GHz	2.4 & 5GHz	N.A	N.A
WIRELESS SPEED	450Mbps	300M@2.4G 867M@5G	N.A	N.A
WIRELESS OUTPUT POWER	30dBm Per Chain	20dBm@2.4G 16dBm@5G Per Chain	N.A	N.A
EXPANSION	1x 9.2mm height MiniPCle Slot	1x M.2 Slot	2x 4.0 mm, 1x 9.2mm height MiniPCle Slot	2x 4.0 mm, 1x 9.2mm height MiniPCle Slot
ETHERNET	2x GE Port with Auto MDI-X	2x GE Port with Auto MDI-X	5x GE Port with Auto MDI-X	5x GE Port with Auto MDI-X
POWER OPTION	DC Jack, IEEE 802.3af/at	DC Jack, IEEE 802.3af/at	DC Jack, IEEE 802.3af/at	DC Jack, IEEE 802.3af/at
POWER CONSUMPTION	19.8W (Board Only)	19W (Board Only)	4.65 W (Board Only)	4.5W (Board Only)
OPENWRT SUPPORT	✓	✓	✓	✓
CONSOLE RJ45 PORT	✗	✗	✓	✗
SERIAL PIN	✓	✓	✓	✓
JTAG	✓	✓	✓	✗
RESET BUTTON	✓	✓	✓	✓
SURGE SUPPRESSOR	✓	✓	✓	✓
LED INDICATORS	✓	✓	✓	✓
SIM HOLDER	✓	✓	✓	✓
DUAL SIM HOLDER	✗	✓	✓	✓
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	RoHS Compliance	FCC, CE RoHS Compliance	CE, RoHS Compliance	RoHS Compliance
DIMENSION (W x H x D)	117 x 105 x 17.7 mm	117 x 105 x 17.6 mm	1159 x 168 x 15.1 mm	PCBA 137 x 148 x 17.5 mm, Heatsink 60 x 148 x 30 mm