

# Wi-Fi® Product Comparison Chart

## Quick Reference Guide

Product	Stand Alone	Network Controller (TCP/IP Stack on Device)	Link Controller (TCP/IP Stack on Host)	Interface	Supported Kernel	Wireless and Network Technology												Development Environment					Module Certification		
						WLAN System						Security			Antenna		Tested Throughput Mbps*		ASF3	ASF4	Harmony	MLA		Linux	
						Wi-Fi® 802.11 b/g/n	Bluetooth® 5	TCP/IP Stack Customization	TCP/IP Stack Location	Number of TCP/UDP Sockets	SoftAP Client Count	Concurrent Mode (STA + AP)	TLS Stack Location	Enterprise Security	WPA/WPA2/WEP	Antenna Diversity	Antenna Types	Downlink							Uplink
ATSAMW25H18-MR210PB195x	Y	Y		-	-	Y	-		Device	6 TCP 4 UDP	1	N	Device	Y	Y		PCB	TCP: 10 UDP: 15	TCP: 8 UDP: 11	Y					FCC/IC
ATWINC15x0-MR210xB1961		Y		SPI	-	Y	-	N	Device	6 TCP 4 UDP	1	N	Device	Y	Y	N	PB: PCB UB: uFL	TCP: 11 UDP: 19	TCP: 10 UDP: 12	Y	Y	Y	Y		PB: WFA/ FCC/IC/CE/China/Taiwan/India UB: FCC/IC/CE
ATWINC15x0-MR210xB1961 (Ethernet/Bypass)		Y		SPI	-	Y	-	Y	Host	No Max	1	N	Host	-	Y	N	PB: PCB UB: uFL	-	-	Y		Y			PB: WFA/ FCC/IC/CE/China/Taiwan/India UB: FCC/IC/CE
ATWINC3400-MR210xA12x		Y		SPI	-	Y	Y	N	Device	7 TCP 4 UDP	1	N	Device	N	Y	N	CA: Chip UA: uFL	TCP: 3 UDP: 6	TCP: 5 UDP: 5	Y					CA: WFA/Bluetooth 5.0/ FCC/IC/CE/Korea/Japan/China/ Taiwan/India UA: FCC/IC/CE
ATWILC1000-MR110xB (Linux)			Y	SPI/SDIO	Linux® 4.1, 4.4, 4.9, 4.14	Y	-	Y	Host	No Max	8	Y	Host	Y	Y	Y	PB: PCB UB: uFL	UDP: 46 TCP: 26	UDP: 25 TCP: 20					Y	PB: WFA/ FCC/IC/CE/Korea/Japan/China/ Taiwan/India UB: FCC/IC/CE
ATWILC1000-MR110xB (RTOS)			Y	SPI/SDIO+UART	FreeRTOS 7.3.0 (ASF3)	Y	-	Y	Host	No Max	8	Y	Host	N	Y	N	PB: PCB UB: uFL	UDP: 20 TCP: 12	UDP: 23 TCP: 16	Y		Y			PB: WFA/ FCC/IC/CE/Korea/Japan/China/ Taiwan/India UB: FCC/IC/CE
ATWILC3000-MR110xA (Linux)			Y	SPI/SDIO+UART	Linux 4.1, 4.4, 4.9, 4.14	Y	Y	Y	Host	No Max	8	Y	Host	Y	Y	Y	CA: Chip UA: uFL	UDP: 46 TCP: 28	UDP: 24 TCP: 20					Y	CA: WFA/ Bluetooth 5.0/ 70+ countries UA: FCC/IC/CE
ATWILC3000-MR110xA (RTOS)			Y	SPI/SDIO+UART	FreeRTOS 7.3.0 (ASF3)	Y	Y	Y	Host	No Max	8	Y	Host	N	Y	N	CA: Chip UA: uFL	UDP: 11 TCP: 10	UDP: 23 TCP: 23	Y					CA: WFA/ Bluetooth 5.0/ 70+ countries UA: FCC/IC/CE

\*Throughput data are provided for design guidance only. These data represent the typical throughput achieved in Microchip's test labs. Throughput varies substantially based on the host used and condition of the environment it is tested in. Microchip does not guarantee throughput performance.