Wi-Fi® Product Comparison Chart
Quick Reference Guide

Microcontrollers

	Core	Max Operating Frequency (MHz)	Flash	RAM	GPIO	Wi-Fi® Version	SoftAP Client Count	TX Output Power (Max) (dBm)	RX Sensitivity (dBm)	Antenna Types	ADC (channels/bits)	Analog Comparators	Motor Control PWM Outputs	Ethernet (10/100)	USB (Full-Speed)	CAN	CAN-FD	UART	I²C	SPI	QSPI	Touch Input Channels	Trust&GO	Wi-Fi Security	Class B Safety Library	Regulatory Certifications	Package Size (mm)
Modules																											
WFI32E04	MIPS32® M-Class	200	2048	640	60	802.11 b/g/n	8	21.5	-93	U.FL	20/12	2	1	1	1	1	1	3	2	2	1	18	Y	WPA, WPA2, WPA3, Enterprise	Y	EU, UK, USA, Canada, Japan, China, Taiwan, South Korea	24.5 × 22.5
WFI32E03	MIPS32 M-Class	200	2048	640	37	802.11 b/g/n	8	21.5	-93	PCB, U.FL	12/12	2	1	1	1	1	1	3	1	2	0	11	Y	WPA, WPA2, WPA3, Enterprise	Y	EU, UK, USA, Canada, Japan, China, Taiwan, South Korea	24.5 × 20.5
WFI32E02	MIPS32 M-Class	200	1024	320	60	802.11 b/g/n	8	21.5	-93	U.FL	20/12	2	1	1	1	1	1	3	2	2	1	18	Y	WPA, WPA2, WPA3, Enterprise	Y	EU, UK, USA, Canada, Japan, China, Taiwan, South Korea	24.5 × 22.5
WFI32E01	MIPS32 M-Class	200	1024	320	37	802.11 b/g/n	8	21.5	-93	PCB, U.FL	12/12	2	1	1	1	1	1	3	1	2	0	11	Y	WPA, WPA2, WPA3, Enterprise	Y	EU, UK, USA, Canada, Japan, China, Taiwan, South Korea	24.5 × 20.5
SoCs																											
PIC32MZ2051W104132	MIPS32 M-Class	200	2048	640	60	802.11 b/g/n	8	21.5	-93	–	20/12	2	1	1	1	1	1	3	2	2	1	19	–	WPA, WPA2, WPA3, Enterprise	Y	–	10 × 10
PIC32MZ1025W104132	MIPS32 M-Class	200	1024	320	60	802.11 b/g/n	8	21.5	-93	–	20/12	2	1	1	1	1	1	3	2	2	1	19	–	WPA, WPA2, WPA3, Enterprise	Y	–	10 × 10

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Controllers

	Interface	Operating System	Recommended Host	Wi-Fi® Version	Bluetooth® Version	TCP/IP Stack Location	Number of TCP/UDP Sockets	SoftAP Client Count	Concurrent Mode (STA + AP)	TX Output Power (Max) (dBm)	RX Sensitivity (dBm)	Antenna Types	Downlink Throughput	Uplink Throughput	Secure Boot	Trust&GO	Wi-Fi Security	Regulatory Certifications	Package Size (mm)
Plug-and-Play																			
RNWF11	ASCII Over UART	–	8, 16- or 32-bit MCU	802.11 b/g/n	–	Device	No Max	8	–	20.5	-93	PCB	–	–	–	Y	WPA, WPA2, WPA3	EU, UK, USA, Canada, Japan, China, Taiwan, South Korea	24.5 × 20.5
RNWF02	ASCII Over UART	–	8, 16- or 32-bit MCU	802.11 b/g/n	–	Device	Up to 8	8	–	20	-97	PCB, U.FL	–	–	Y	Y	WPA, WPA2, WPA3	EU, UK, USA, Canada	21.7 × 14.7
Network Controllers																			
WINCS02	SPI	–	16- or 32-bit MCU	802.11 b/g/n	–	Device	Up to 8	8	–	20	-97	PCB, U.FL	–	–	Y	Y	WPA, WPA2, WPA3	EU, UK, USA, Canada	21.7 × 14.7
ATWINC3400	SPI	–	16- or 32-bit MCU	802.11 b/g/n	5.0	Device	TCP: 7 UDP: 4	1	–	17.5	-90	Chip, U.FL	TCP: 3 UDP: 6	TCP: 5 UDP: 5	–	–	WPA, WPA2, Enterprise	70+ Countries	22.43 × 14.73
ATWINC15x0	SPI	–	16- or 32-bit MCU	802.11 b/g/n	–	Device	TCP: 6 UDP: 4	1	–	18.5	-95	PCB, U.FL	TCP: 11 UDP: 19	TCP: 10 UDP: 12	–	–	WPA, WPA2, Enterprise	EU, USA, Canada	21.7 × 14.7
Link Controllers																			
WILCS02	SPI/SDIO	Linux®	MPU	802.11 b/g/n	–	Host	No Max	8	–	20	-97	PCB, U.FL	–	–	Y	–	WPA, WPA2, WPA3, Enterprise	EU, UK, USA, Canada	21.7 × 14.7
ATWILC3000	SPI/SDIO, UART	Linux, Free RTOS	MPU	802.11 b/g/n	5.0	Host	No Max	8	Y	18.5	-90	Chip, U.FL	TCP: 28 UDP: 46	TCP: 20 UDP: 24	–	–	WPA, WPA2, Enterprise	EU, USA, Canada	22.4 × 14.7
ATWILC1000	SPI/SDIO	Linux, FreeRTOS	MPU	802.11 b/g/n	–	Host	No Max	8	Y	18.6	-94	PCB, U.FL	TCP: 26 UDP: 46	TCP: 20 UDP: 25	–	–	WPA, WPA2, Enterprise	EU, USA, Canada, Japan, China, Taiwan, South Korea	21.7 × 14.7

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