

Model	Ai-WB2-12F	Ai-WB2-12S	Ai-WB2-32S	Ai-WB2-07S	Ai-WB2-13	Ai-WB2-13U	Ai-WB2-01M	Ai-WB2-M1-I	Ai-WB2-M1	Ai-WB2-05W	Ai-WB2-01S
Picture											
Chip	BL202										
Wireless protocol	Wi-Fi 2.4G, BLE 5.0										
FLASH	4MB	2MB	4MB	4MB	4MB	4MB	2MB	4MB	4MB	2MB	2MB
Communication protocol	TCP/UDP/TTP/TIP/TIP/TIP/TIP/TIP/TIP/TIP/TIP										
Peripherals	SDIO, SPI, UART, I2C, I2S, Remote, PWM, ADC, DAC, PIR/PIR/GPIO										
Security encryption	WPS/WEP/WPA/WPA2/Personal/WPA/Enterprise/WPA3										
Performance configuration	Working frequency 192MHz, 32-bit RISC CPU, 276KB RAM										
Power supply	2.7V~3.0V > 500mA										
Operating temperature	-40°C~125°C < -90%RH										
Storage temperature	-40°C~85°C										
Power consumption	deep sleep mode current 12µA										
Available IO number (External FLASH)	9(Mainly recommended)	9(Mainly recommended)	9(Mainly recommended)	9(Mainly recommended)	9(Mainly recommended)	9(Mainly recommended)	/	/	/	/	9 (Mainly recommended)
Available IO number (Built-in FLASH)	15	11	15	11	11	11	4(Mainly recommended)	15(Mainly recommended)	15(Mainly recommended)	15(Mainly recommended)	9
Transmission distance in open environment	480m	480m	524m	500m(with AI-Thinker's antenna)	480m	500m(with AI-Thinker's antenna)	480m	480m	480m	480m	480m
Size(mm)	24.0*16.0*3.1(±0.2)mm	24.0*16.0*3.1(±0.2)mm	25.5*18.0*3.1(±0.2)mm	17.0*16.0*3.1(±0.2)mm	20.0*18.0*3.1(±0.2)mm	14.0*18.0*3.1(±0.2)mm	18.0*18.0*3.1(±0.2)mm	12.5*13.2*2.4(±0.2)mm	16.6*13.2*2.4(±0.2)mm	13.0*19.0*2.4(±0.2)mm	14.3*24.5*1.1(±0.2)mm
Package	SMD-22	SMD-16	SMD-38	SMD-16	SMD-18	SMD-18	SMD-18	DIP-18	SMD-61	SMD-61	SMD-22
Antenna	On-board PCB	On-board PCB	On-board PCB/IPEX	IPEX	On-board PCB	IPEX	On-board PCB	IPEX	On-board PCB	On-board PCB	On-board PCB