

# Wire/Wireless modules model list

## 2G



Chip	AcSip AE2502b
GSM Bands	850/900/1800/1900 MHz
Certification	CE / FCC pre-scan pass

## 1 port Ethernet



Ethernet Chip	ASIX AS88179
PHY	10/100/1000

## 4 port Ethernet



Ethernet Chip	ASIX AS88179
Switch IC	Broadcom BCM53115
PHY	10/100/1000

## 3G



Chip	Quectel UC20-G
Frequency Bands	GPS: 1575.42MHz GLONASS: 597.5 ~ 1605.8MHz UMTS: 800/850/900/1900/2100MHz GSM: 850/900/1800/1900MHz
Certification	CE / FCC / IC / GCF / PTCRB / Vodafone / RCM / Anatel / NBTC / AT&T / JATE / TELEC / KC / NCC / OFCA / SKT / Rogers / TA / NAL

## Wi-Fi



Chip	Sparklan WUBR-508N(MU)
Standard	802.11 a/b/g/n 2T2R
Frequency	2.4GHz / 5GHz
Certification	FCC / CE / IC / Telec

## LoRa



Product Name	Portwell XL-10
Frequency Range	902-928 MHz
Bandwidth	62.5 - 500KHz
Effective Bitrate	146 - 37500 bps

## RS-232 / RS-422 / RS-485



Chip	FTDI FT232R
Baud Rate	300-1M Baud
Data Bit	4, 5, 6, 7, 8
Stop Bit	1, 1.5, 2
Flow Control	Xon / Xoff, RTS/ CTS, NONE

## ZigBee



Product Name	XBee (PRO) S2C ZigBee
Transceiver Chipset	Silicon Labs EM357 SoC
Data Rate	RF 250 Kbps, Serial up to 1 Mbps
Indoor/urban Range	200 ft (60 m)
Certification	FCC / IC

## BLE



Product Name	Tinysine Bluetooth Bee
Chip	TI CC2541
BT Version	Bluetooth Specification V4.0 & BLE
Working Frequency	2.4 ~ 2.48GHz unlicensed ISM band
Modulation	GFSK (Gaussian Frequency Shift Keying)
Transmission Distance	50 ~ 60m in free space