

XBee® / RF Family Features Comparison

Topology	Protocol	Product	Regions	Frequency	Positioning	RF Line of Sight Range	Transmit Power	Receiver Sensitivity (1% PER)	Form Factor		RF Data Rate	Programmable Variant	Hardware
Point-to-Multipoint	IEEE 802.11	XBee® Wi-Fi	US, EU, AU, JP	2.4 GHz	Low-power serial to Wi-Fi b/g/n	400 ft / 120 m	12 to +15 dBm	-72 to -84 dBm	Through-hole		1 to 65 Mbps	N/A	S6
	IEEE 802.15.4	XBee® 802.15.4	US, EU, AU, JP	2.4 GHz	Low-cost, low-power multipoint	300 ft / 90 m	0 dBm	-92 dBm	Through-hole		250 Kbps	N/A	S1
		XBee-PRO® 802.15.4	US, AU	2.4 GHz	Extended-range multipoint	1 mile / 1.6 km	+18 dBm	-100 dBm			250 Kbps	N/A	S1
				US, EU, AU, JP	2.4 GHz	International/"J" variant	3200 ft / 1 km	+10 dBm	-100 dBm		250 Kbps	N/A	S1
		Multipoint Proprietary		XBee-PRO® 900	US, AU	900 MHz	Extended-range, high speed multipoint	1.8 miles / 3 km	+17 dBm	-100 dBm	Through-hole		156 Kbps
	XBee-PRO® XSC		US	900 MHz	Long-range multipoint for North America	6 miles / 9.6 km	+20 dBm	-106 dBm		10 Kbps		N/A	S3
XBee-PRO® 868	EU		868 MHz	Long-range multipoint for Europe	25 miles / 40 km	+25 dBm	-112 dBm		24 Kbps	N/A		S5	
Mesh	ZigBee® PRO Feature Set	XBee® ZB SMT	US, EU, AU, JP	2.4 GHz	Surface mount, low-cost, low-power end devices, ZigBee PRO Feature Set, EM357	4000 ft / 1.2 km	+8 dBm	-102 dBm	SMT		250 Kbps	32 KB Flash / 2 KB RAM	S2C
		XBee-PRO® ZB SMT	US, AU	2.4 GHz	Extended-range, surface mount, ZigBee PRO Feature Set, EM357	2 miles / 3.2 km	+18 dBm	-101 dBm			250 Kbps	32 KB Flash / 2 KB RAM	S2C
		XBee® ZB	US, EU, AU, JP	2.4 GHz	Through-hole, low-cost, low-power end devices, ZigBee PRO Feature Set, EM250	400 ft / 120 m	+3 dBm	-96 dBm	Through-hole		250 Kbps	N/A	S2
		XBee-PRO® ZB	US, AU	2.4 GHz	Extended-range, through-hole, ZigBee PRO Feature Set, EM250	2 miles / 3.2 km	+18 dBm	-102 dBm			250 Kbps	32 KB Flash / 2 KB RAM	S2B
			US, EU, AU, JP	2.4 GHz	International/"J" variant	5000 ft / 1.5 km	+10 dBm	-102 dBm			250 Kbps	32 KB Flash / 2 KB RAM	S2B
	ZigBee® Smart Energy Public Profile	XBee® SE	US, EU, AU, JP	2.4 GHz	Low-cost, low-power end devices, ZigBee PRO Feature Set	400 ft / 120 m	+3 dBm	-96 dBm	Through-hole		250 Kbps	N/A	S2
		XBee-PRO® SE	US, AU	2.4 GHz	Extended-range ZigBee PRO Feature Set	2 miles / 3.2 km	+18 dBm	-102 dBm			250 Kbps	N/A	S2B
			US, EU, AU, JP	2.4 GHz	International/"J" variant	5000 ft / 1.5 km	+10 dBm	-102 dBm			250 Kbps	N/A	S2B
	DigiMesh® Proprietary	XBee-PRO® DigiMesh® 900	US, AU	900 MHz	Extended-range peer-to-peer mesh, sleeping routers	1.8 miles / 3 km	+17 dBm	-100 dBm	Through-hole		156 Kbps	N/A	S4
		XBee® DigiMesh® 2.4	US, EU, AU, JP	2.4 GHz	Low-cost, low-power peer-to-peer mesh, sleeping routers	300 ft / 90 m	0 dBm	-92 dBm			250 Kbps	N/A	S1
			US, AU	2.4 GHz	Extended-range peer-to-peer mesh, sleeping routers	1 mile / 1.6 km	+18 dBm	-100 dBm			250 Kbps	N/A	S1
			US, EU, AU, JP	2.4 GHz	International/"J" variant	3200 ft / 1 km	+10 dBm	-100 dBm			250 Kbps	N/A	S1
Point-to-Multipoint OR Mesh	Multipoint Proprietary or DigiMesh® Proprietary	XTend®	US, AU	900 MHz	High power, longest-range mesh/multipoint for Americas/Australia	15 miles / 24 km	1W (+30 dBm)	-110 / -100 dBm	Through-hole		10 / 125 Kbps	N/A	XTend

