XBee™ Family – Popular and Robust Wireless Modules for 4G/3G Cellular, Sigfox and LoRa

RF OEM

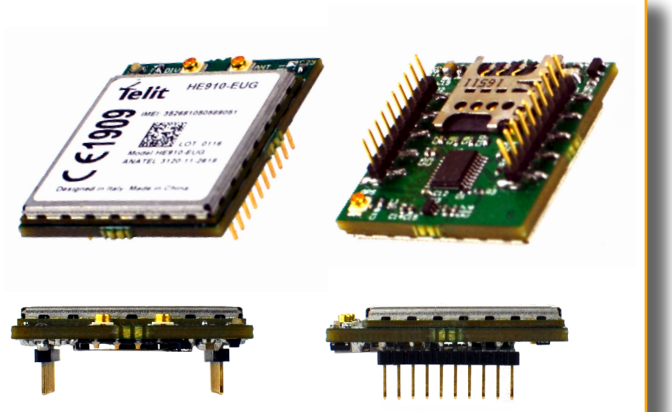
XBee™

A Glyn OEM RF Module enables you to get to market faster.

Xbee™ is an established form factor from Digi® with a wide product range available. Glyn has expanded the range of wireless modules with flexible connectivity options for your product.

The Glyn XBee form factor allows for a low cost carrier board that is plug and play with the Digi® Xbee™ form factor, with communication over UART.

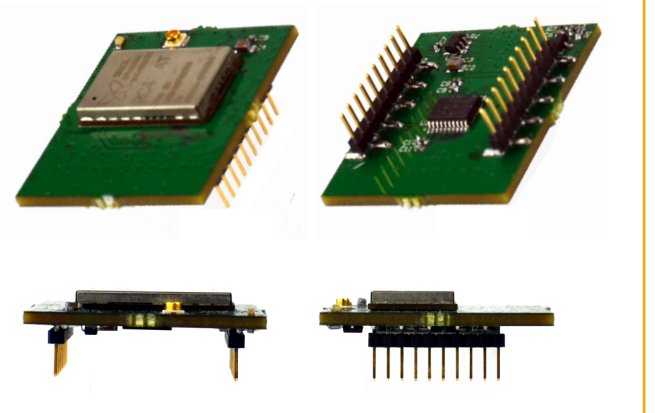
With robust connectivity options and faster time to market the pluggable Cellular, Sigfox, and LoRa modules available from Glyn, your new product can have the right connectivity solution for any application with a short turnaround and lower development cost.



XBee 910

Cellular
The XBee 910 uses the xE910 global form factor from Telit provide a wide range of cellular options, including, LTE CAT4, CAT1, M1, NB-IoT, 2G & 3G. A micro-SIM on board allows simple connectivity options to any carrier of your choosing.

Sigfox
The XBee Sigfox uses the Wisol module family, to provide Sigfox modules for each of the regional zones.



XBee Sigfox

LoRa
The XBee LoRa uses the Microchip module family to provide all band support in 2 module options. RN2483 covers 433 and 868 MHz, whilst the RN2903 covers 915MHz, including LoRaWAN AS923 and AU915 specifications.

Having the standard form factor on the Glyn XBee carrier boards allows for your product to be deployed world-wide with whatever wireless option you need, by just plugging in the appropriate Glyn XBee board for your requirements.

Part Number Breakdown

XBee	**910**	**-xE**	Communication protocol. Refer to Telit xE910 range
		-XXX	Module variant. Embedded GNSS options available
		-X	Firmware version
	Sigfox	**-RCX**	Regional variant - RC1, 2, 3 or 4.
		-10	Sigfox only module
		-X	Firmware version
	LoRa	**-RN2XXX**	Module variant - 2483(863-870MHz(EU), EU433(EU), IN865-867), 2903(US902-928MHz(USA), AU915-928MHz(NZ), AU915-928MHz(Aus), AS923, KE920-923)

Specifications

Form Factor	XBee Dual 10-Pin SMT Header	**Operating Temperature**	-40 to 85° C
Dimensions	33.8 x 29.2 x 7mm	**Operating Voltage**	3V3
Configuration Method	AT commands	**Data Interface**	UART
Antenna Options	IPX/u.FL connector	**UART Level**	3V3

Pinout Table

Sigfox/LoRa	xE910	Pin		xE910	Sigfox/LoRa
3.3-4.2V	3.3-4.2V	1	20	ON/OFF (1.8V driven open drain/collector)	ON/OFF(VCC driven open drain/collector)
DOUT (VREF)	DOUT (VREF)	2	19	ADC1 (1.8V)	ADC1 (3V3)
DIN (VREF)	DIN (VREF)	3	18	DIO2 (1.8V)	DIO2 (3V3)
GND	GND	4	17	DIO3 (1.8V)	DIO3 (3V3)
Reset nIN (VREF)	Reset nIN (VREF)	5	16	RTS (VREF)	RTS (VREF)
NC	VUSB (4.4-5V)	6	15	GND	GND
NC	USB+	7	14	VREF (Must be connected and >=1.8V)	VREF (Must be connected and >=3V3)
NC	USB-	8	13	ON/nSLEEP (1.8V)	ON/nSLEEP (3V3)
DTR(VREF)	DTR(VREF)	9	12	CTS(VREF)	CTS (VREF)
GND	GND	10	11	GND	GND