

# 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.

## 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.

## 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.



XBee 910



XBee Sigfox

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

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

## Specifications

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

Visit the Glynstore XBee™ page - [www.glynstore.com/xbee/](http://www.glynstore.com/xbee/)



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