ACW XB

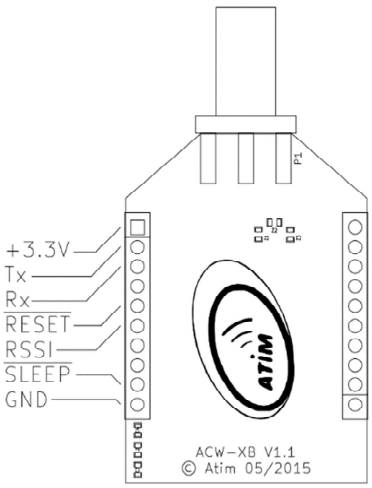
SIGBEE o LORABEE o FLEXIBLE o THE AIRBOARD®

THE ACW SIGBEE/LORABEE

is a product that has been designed to send data over long distances from XBee® based devices with a low power consumption and using a large variety of radio technologies :

- Sigfox™
- LoRaWan®
- Local Modbus





Flexibility: Several operating modes are available from 'AT' commands / settings via UART : transparent, secured, repeater, test, UART to Sigfox, radio (point to point) to Sigfox.

Low Power: less than 1 uA in sleep mode.

Range: A link budget up to 161 dBm. This allows you to have a range (Line-Of-Sight) more than 15km !

Adapters: ATIM provides a complete range of shields and evaluation boards: Raspberry PI® interface, Arduino®-interface, « The Airboard® » shield, « LoRaBee shield », USB Key and Mini PCI Express

Technical features

Dimensions	50 x 24 x 12 mm
Radio Regulation	EN 300 220 V2.4.1
Operating Temp	-30°C to +70°C
Modulation	2GFSK/BPSK (Sigfox)
Sensitivity	-143dBm @BER10^{-3}
Range	>25 km (LoS)
Frequency	863 – 870 MHz
Output power	25 mW (14 dBm)
Data rate	100 bit/s to 115,2 Kbit/s
Antenna	50 Ω via SMA connector
Power supply	3,3 Vdc
Interface	2x10 pins (XBee® pinout)
Setup	AT commands via UART

Reference

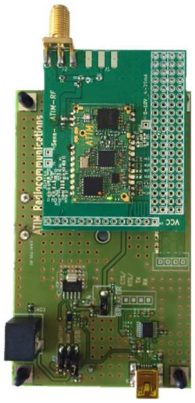
- ACW-XB/868
- ACW-XB/SF8+
- ACW-XB/SF8
- ACW-XB/LR8

ATIM Radiocommunications
Chemin des Guillets
38250 Villard de Lans
France

www.atim.com
info@atim.com
+33 4 76 95 50 65

ATIM RF SHIELDS

Adapters for the ARM-NANO family

Name	*ACW-RPI*	*SigBee® LoraBee®*	*ACW-MPCIE*	*ACW-DUINO*	*ACW-USB*	*ACW-SDK*
Adapter Type	Raspberry Pi	XBee	Mini PCI-Express	Arduino	USB Dongle	USB
Supported RF Modules	ARM-Nano 868 MHz / Lora / Modbus / Sigfox					
Provided driver	Yes, Debian	No	No	Yes	Yes	Yes, FTDI Driver
Interfaces	UART	UART	UART	UART	USB	None
Antenna	External SMA	External SMA	External UFL	External SMA	External SMA	External SMA
Power	3.3 V	3.3 V	3.3 V	3.3 V	-	USB/5V/AA
Picture						
Dimensions (mm)	67x35x13	50x25x13	50x30x4	70x53x13	73x22x10	125x60x38

Try the Atim Cloud Wireless® A dedicated Web platform for the entire ATIM ACW line of products. Makers, Get Ready !

atim cloud wireless™
PRODUCT LINE

ATIM CONNECTS EVERYTHING
AND EVERYWHERE...

ATIM Radiocommunications
Chemin des Guillets
38250 Villard de Lans
France

www.atim.com
info@atim.com
+33 4 76 95 50 65