

# UPLYNX XS8001(-T) SOC

## Wide Operating RF :

\* 915MHz / 868MHz /  
780MHz / 510MHz /  
433MHz / 315MHz /  
230MHz

## Communication Unit :

\* 100bps / 600bps /  
12.5Kbps / 25Kbps /  
100Kbps / 1Mbps  
\* GSK / BPSK

## SDK Available :

Sigfox Lib v2.2.3

## Powerful MCU :

\* Andes N801-S Processor  
(32-Bit / 60MHz)  
\* 24KB RAM / 128KB Flash  
\* Integrated 22dBm PA  
\* 10-Bit 250Kbps ADC \* 4  
\* Peripherals :  
PWM x2 / SPIx2 / UARTx2 /  
GPIO / I2C  
\* AES-128  
\* Temperature Sensor  
\* Analog Comparator  
\* Battery Sensor  
\* Voltage Alarm  
\* AT-Command

## Low Current Consumption :

\* 60mA @ 14dBm  
(868MHz)  
\* 130mA @ 22dBm  
(902MHz)  
\* <7uA @ Sleep

## Low Cost Solution :

\* No Extra FEM(Front-  
End-Module) and SAW  
filter for RCZ123456\*

## Chip-On-Board Design Support :

\* Compatible with Mo-  
dem Module for  
RC123456\*

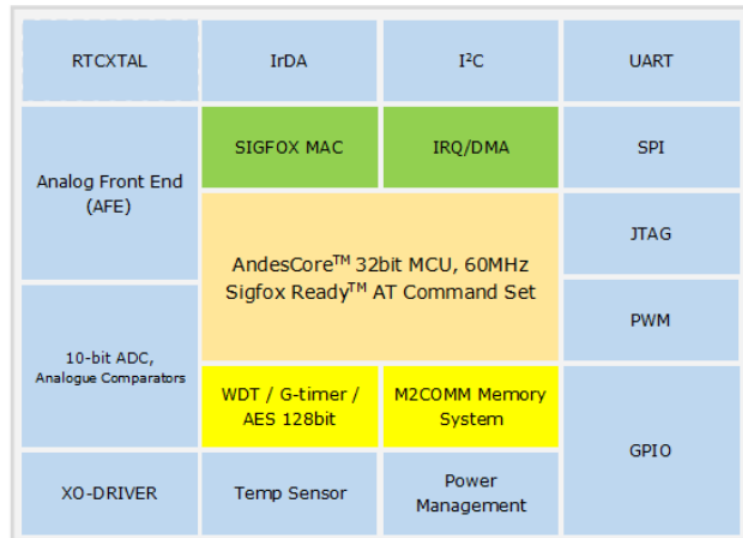
## One SoC for Sigfox Global Network Chip-On-Board (COB) Design Ready



## Feature :

- \* One SoC for Sigfox RC123456\* Compliant
- \* Powerful MCU with Various Peripherals
- \* SDK Available
- \* Extreme BOM Cost
- \* Chip-On-Board(COB) Design Support

## Functional Block Diagram :



## Order Information:

Part Number	Description
XS8001-NG48NRY	Sigfox Verified QFN 48-pin Sigfox SoC
BSM8001-01-NRY	Sigfox Verified RCZ1 Modem Module
BSM8001-02-NRY	Sigfox Verified RCZ24 Modem Module
BSM8001-03-NRY	Sigfox Verified RCZ3 Modem Module
BSM8001-05-NRY	Sigfox Verified RCZ12345 Modem Module
BSE8001-**-NRY	Sigfox Verified Development Kit



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