SAEE Srl – Socio Unico
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OPERATIONAL DESCRIPTION

nZB R1 – nanoZigBee

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Features

- Module MCU-RF in a small package
- Scalable IEEE 802.15.4 and ZigBee Compliant Platform
- 2.4 GHz Low Power Transceiver for the IEEE 802.15.4 Standard
- 16 selectable channels
- Nominal output power 0dBm
- Receive sensitivity of -94 dBm (typ)
- 6-channel 8-10 bit ADC (AD1Px)
- 2-UART
- 1 I2C bus (SCL, SDA)
- 5 general purpose input/output (GPIO)
- 1 general purpose output (GPO)
- 1–channel Input-Output Compare/PWM
- Field upgradeable
- 2V to 3.4V operating voltage
- Low power: less then 17μA (stop mode at 85°C)
- Peak current consumption: 60 mA
- Operating Temperature -40°C ~ +85°C

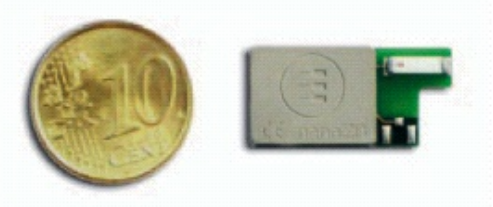
Overview

This module is the right response at any low-data-rate, monitoring, control or automation application that requires long battery life and wireless connectivity.
This module provides solutions for wireless sensing and control applications that require networks that support simple point-to-point solutions, to complete ZigBee compliant mesh networks.
It is a stand-alone module with its MCU that is in field programmable and with many pins configurable for a flexible and adaptable use to every field.

Target Applications

Industrial automation
Domotic
Medical equipment
Localization

Remote monitoring and control
Remote sensors monitoring
Active RF ID



NZB

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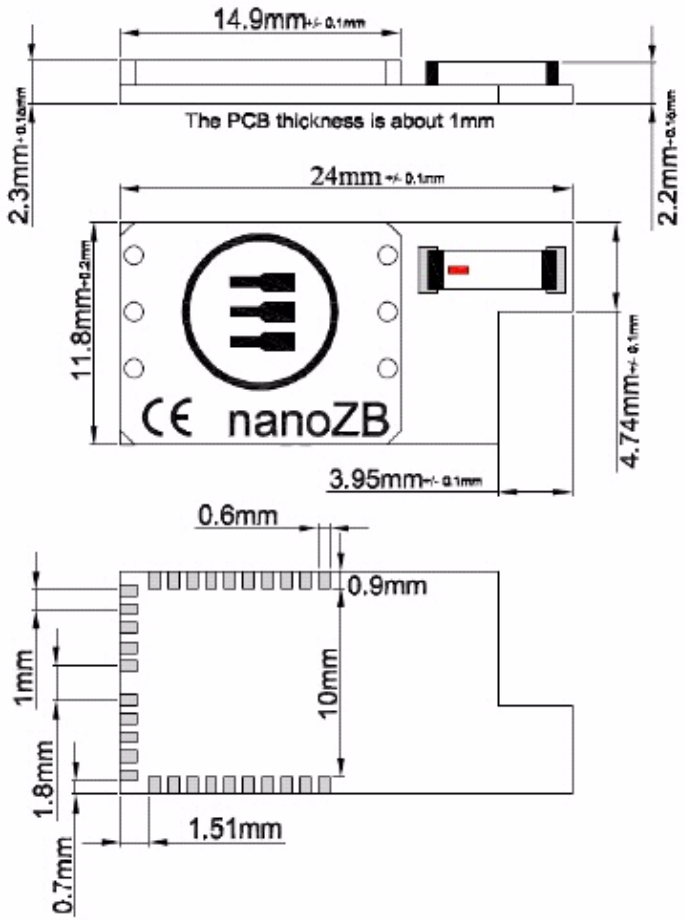
Physical Dimension



Terminals	
1. GND	16. GPIO/SCL
2. BKGD/GPO	17. GPIO/SDA
3. RST~	18. GPIO
4. AD1P1	19. NC
5. AD1P2	20. GND
6. AD1P3	21. AD1P0
7. AD1P4	22. UART_CTS1
8. AD1P5	23. UART_RTS1
9. VDD	24. UART_TX1
10. GND	25. UART_RX1
11. UART_CTS	26. GPIO
12. UART_RTS	27. GPIO
13. UART_TX	28. GPIO
14. UART_RX	29. GPIO/TPM
15. GPIO	30. GND