



**SPZB260C-PRO
SPZB260A-PRO
ZigBee Module**

ZigBee RF MODULE OPERATIONAL DESCRIPTION

SPZB260C-PRO /SPZB260A-PRO is a low power consumption ZigBee ® module optimized for embedded applications. It enables OEMs to easily add wireless capability to electronic devices.

The module is based on the SN260 ZigBee® Network Processor which integrates a 2.4GHz, IEEE 802.15.4-compliant RF and MAC.

A single supply voltage is requested to power the module. The voltage supply also determines the I/O port level allowing an easy interface with the host system .

- SPZB260C-PRO integrates a RF UFL connector allowing the use of an external antenna.
- SPZB260A-PRO has a specific 2.4GHz Murata integrated antenna aboard.

The module allows a great flexibility in its integration with an host processor as it allows connection with the external controller via SPI or UART interfaces.

APPLICATIONS

- Industrial controls
- Sensor Networking
- Monitoring of remote systems
- Home applications
- Security systems
- Lighting controls

FEATURES

- Integrated 2.4 GHz, IEEE 802.15.4 compliant transceiver (PHY and MAC)
 - + 3 dBm nominal TX output power (at UFL connector level)
 - + 5 dBm in boost mode
 - -95 dBm typ RX sensitivity
 - RX filtering for co-existence with IEEE 802.11g and Bluetooth devices
 - Integrated VCO and loop filter
- Enabled access to EZSP over synchronous serial interface (SPI) or to EZSP over asynchronous serial (UART)
- Integrated EmberZNet network stack version 3.1.1 for SPI access
- Embedded flash and integrated RAM for program and data storage
- On board 24 MHz stable Xtal
- Integrated RC oscillator (typ 10KHz) for low power operation
- Operation over the industrial temperature range of -40°C to +85°C
- 1 uA power consumption in deep sleep mode
- Watchdog timer and power on reset
- Pins available for Non-Intrusive debug interface (SIF)
- Single supply voltage (2.1V to 3.6V)
- Available Link and Activity outputs for external Indication / monitor
- Integrated RF UFL connector for external antenna
- (SPZB260C-PRO) or integrated antenna (SPZB260A-PRO)
- CE compliant
- FCC compliant (FCC ID: S9NZB260B)