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

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### **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)