Low-cost, Low-power ZigBee Serial Adapter - ProBee-ZS10

The ProBee-ZS10 is an all-in-one ZigBee Serial Adapter with integrated ZigBee core and radio/antenna circuits together with high level software library.

The ZS10 Serial Adapter is designed to meet specific requirements of low cost and low power wireless applications such as Home Automation, Smart Energy, Health care, Building Automation and Telecom Services by adopting the ZigBee technology.

Despite of its low cost and low power consumptions, the ZS10 provides high performance and robust data transfer capability for wide range of applications. The ZS10 can transfer data at up to 250 kbps and reach up to 1.6 km (1 mile) outdoor line-of-sight.

Key Features
- Integrated 2.4GHz, IEEE 802.15.4-compliant transceiver
- ZigBee 2007/ ZigBee Pro stack
- ZigBee core: Ember EM250
- Transmit Power: +20dBm E.I.R.P (max.)
- Receiver Sensitivity: -102dBm @1% BER
- Supply Voltage: 3.3~12.0 VDC
- TX Current: 200mA@5.0V (max.)
- RX Current: 55mA@5.0V (max.)
- Sleep Current: = 10uA
- Working Distance: 1.6 km (1 mile)
- Various Antenna Options: Dipole 1/3/5dBi
- RS232 Signals Support: TXD/RXD, RTS/CTS, DTR/DSR
- 2 buttons
- 4 dipswitches
- RoHS Compliant
- Supply voltage: 5V ~ 12V DC

Applications

- Advanced Metering Infrastructure
- Home Area Networks (HAN)
- Neighborhood Area Networks (NAN)
- Home Automation
- Advanced lighting, entertainment, and climate control systems
- Service-based monitoring, security, and awareness systems
- Commercial Building Automation
- Climate & lighting control systems
- Industrial and Domestic Applications

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Posted by Janine E. Mooney, Editor

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