

ZigBee USB Adapter, ProBee-ZU10



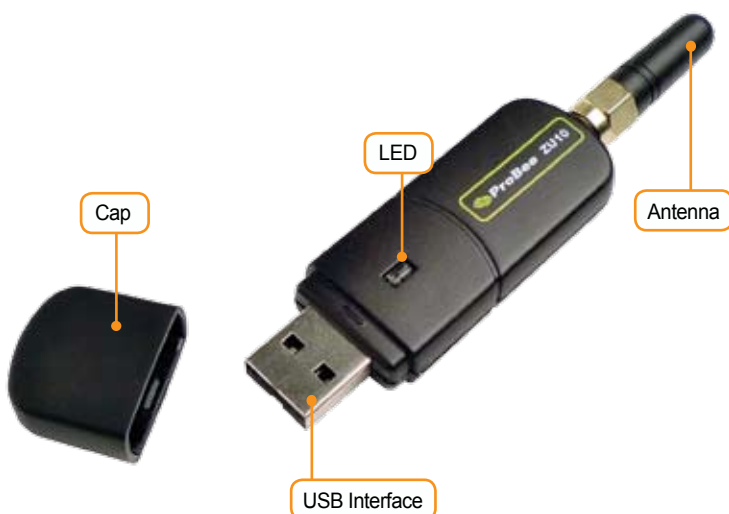
Features

- Fully supports Zigbee®/Zigbee Pro 2007 wireless connectivity
- Integrated 2.4GHz, IEEE 802.15.4-compliant coprocessor
- Various antenna options according to users' requirement, up to 1.6km with optional 5 dBi dipole antenna
- USB 2.0 interface
- Supports various self management features wirelessly such as firmware upgrade and system configuration by using modem AT command set
- Easy to use Windows configuration tool available

The **ProBee-ZE10** is a ZigBee USB adapter with integrated ZigBee core and radio/antenna circuits together with high level software library.

The ZU10 USB Adapter is designed to meet specific requirements of low cost and low power wireless applications such as home automation or smart energy by adopting the ZigBee technology fully certified under the latest ZigBee Pro standard for the maximum compatibility. The ZU10 provides high performance and robust data transfer capability for wide range of applications.

Exterior



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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Specifications

RF Characteristics

- Frequency Band: 2.4 GHz
- Interface Immunity: DSSS
- Transmit Power: +20dBm E.I.R.P (max.)
- Receiver Sensitivity: -102dBm @1% BER
- RF Data Rate: 250 kbps
- Working Distance: Up to 1.6km using 5 dBi dipole antenna
- Various Antenna Options from standard 1 dBi antenna to 3/5 dBi dipole antenna
- Channels: 14
- Channel Spacing: 5 MHz

ZigBee Network

- Network topology: Mesh
- Stack profile: ZigBee / ZigBee Pro 2007
- Network addressing: Channel, PAN ID, EPID

ZigBee Data Transmission

- Unicasting
- Multicasting
- Broadcasting
- Many-to-One Communication
- Enhanced Reliability based on data retransmission

ZigBee Security

- Network Layer security with one Trust Center for efficient operation
- 128 bit AES encryption algorithms
- Strong, NIST-approved security

Device Management and Configuration

- Configuration Method: AT Commands, ProBee Manager
- Remote Configuration
- Remote Firmware Upgrade using both Cloning and Pass-thru methods
- Supports rich neighborhood device scanning and monitoring using AT commands

Antenna

- Default Stub Antenna: 1 dBi
- Optional Dipole Antenna: 3/5 dBi
- RP-SMA connector

Interface

- USB 'A' type Connector
- USB 2.0 Full Speed compatible

Computer OS Support

- Windows XP/Vista/7 (32/64bit)
- Linux (3rd party driver required)
- MAC OS X (MAC OS X driver required)

Environmental

- Operating Temperature: -20°C to 70°C
- Storage Temperature: -40°C to 85°C
- Humidity: 90% Non-condensing

Physical Properties

- Dimension (L x W x H): 70.9 x 22 x 10(mm) / 2.8 x 0.9 x 0.4(in)
- Weight: 10 g / 0.36 oz

Certification: FCC, CE, TELEC, KCC

Warranty: 3-year limited warranty

Ordering Information

| Part number | Description |
|-------------|--|
| ZU10-G01 | ProBee ZU10 ZigBee USB Adapter, Exchangeable Antenna |

Optional Accessories

| Part number | Description |
|-------------|---|
| SAT-G01R | 1 dBi Stub Antenna, RP-SMA Plug, Right-hand Thread |
| DAT-G01R | 3 dBi Dipole Antenna, RP-SMA Plug, Right-hand Thread |
| DAT5-G01R | 5 dBi Dipole Antenna, RP-SMA Plug, Right-hand Thread |
| SEC-G01R | 15cm RPSMA Antenna Extension Cable, Right-Hand Thread |

For more information,
please visit us at <http://www.sena.com>

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