

BTIO BTD1000

Bluetooth to RS-422/485 Adapter



Features

- Link any RS-422 or RS-485 device to a Bluetooth communication
- Supports Bluetooth Class 1 (20 dbm) version 1.1 standard
- Operating distance of up to 100 meters in free space.
- SUNIX ARSC™ technology for RS-485 2 or 4 wire signal direction control
- RS-422/485 Auto Identify and Switch technology make jumper-free
- Supports baud rate up to 460.8 Kbps
- Compact sized and easy operation design with User-friendly Windows configuration software
- Single +5VDC input and low power consumption
- Powered by external power adapter or USB port on hosting device
- Support for Microsoft Windows 98SE, Me, 2000, XP and 2003

Overview

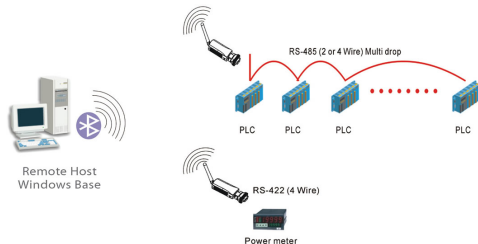
Bluetooth wireless technology, the serial adapter provides cable-free Serial connections between your Bluetooth equipped PC and serial devices. SUNIX BTD1000 provides a quick, simple and cost-effective way of bringing the advantages of data accessibility and remote management on a network to the

RS-422/485 serial devices. BTD100 convert serial peripherals into Bluetooth compatible and dramatically enhance communications wirelessly. It is compliance to Bluetooth Class 1 standard version 1.1, which allows data communication distance up to 100M and transfer rate up to 460.8Kbps.

Application

SUNIX BTD1000 provides a cable replacement solution for user control RS-422 (4-wire) or RS-485 (2 / 4-wire) devices via Bluetooth wireless technology. After establishing an exclusive connection by utilizing Bluetooth MAC Address and PIN code,

BTD1000 adapter will automatically try to link (Master) or to be linked (Slave) with another paired Bluetooth device wirelessly, just like there is a serial cable connected between them.



Specifications

Serial Communication

| | |
|------------------------------|---------------------------------|
| Type | Bluetooth to RS-422/485 Adapter |
| Interface | RS-422/485 |
| No. of Port | 1 port |
| Port Type | DB9 Male |
| RS-485 Signal Control | SUNIX ARSC™ technology |

Select RS-422 or RS-485

| | |
|-------------------|--|
| | Auto Detect & Switch RS-422/485 |
| Signal | RS-422: TxD+/-, Rx D+/-, GND RS-485: Data+/-, GND |
| Throughput | Maximum up to 460.8Kbps |
| Baud rate | 1200bps ~ 460.8 Kbps |
| Data bit | 5,6,7,8 |
| Stop bit | 1,1.5,2 |
| Parity | even, odd, none, |
| Protection | 15KV ESD protection for all signal |

Bluetooth Communication

| | |
|------------------------|--|
| Standard | Bluetooth V1.1 |
| RF Power | Class 1 |
| Frequency | 2.4~2.4835GHz unlicensed ISM band |
| Modulation | GFSK, 1Mbps, 0.5BT Gaussian |
| Spread Spectrum | FHSS (Frequency Hopping Spread Spectrum) |
| Services | Series Port Profile (SPP) |
| Sensitivity | <-88dBm at < 0.1% BER |

| | |
|----------------------|---|
| Distance | Up to 100m in free space |
| Antenna | 2dBi Chip Embed and External Antenna |
| Software | |
| Driver | Microsoft Windows 98SE / ME / 2000/ XP / 2003 |
| Configuration | Remote Configuration Utility or Serial Console |

Power

| | |
|--------------------|--|
| Power Input | 5V DC |
| Power | Tx Typical: 115mA |
| Consumption | Rx Typical: 75mA Standby Mode: 15mA |

LED Indicate

Power, Bluetooth active, Mode active

Mechanical

| | |
|-------------------|----------------------------|
| Dimensions | 109 (L) x 34(W) x 18(H) mm |
| Case | Hard Plastic (PC) |
| Weight | 150 ± 2 g |

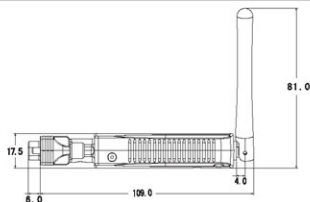
Regulatory Approvals

CE, FCC

Operation Environment

| | |
|------------------------------|---------------|
| Operation Temperature | 0 to 60 °C |
| Operation Humidity | 5 to 95% RH |
| Storage Temperature | -20°C to 85°C |

Dimensions



Pin Assignment

RS-422



1 TxD-
2 TxD+
3 Rx D-
4 Rx D+
5 GND

RS-485



1 Data-
2 Data+
5 GND

Packing List

1. Bluetooth to RS-422/485 Adapter
2. User's Manual and Software CD ROM
3. Quick Installation Guide
4. Power Adapter 5V / 1A,

Optional Accessories

1. USB to Bluetooth Dongle