

Bluetooth Serial Adapter,  
**Parani™ SD1100**



### Features

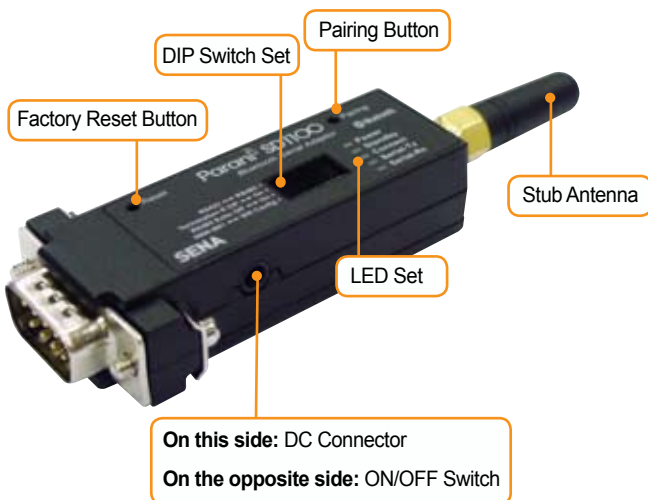
- Provides transparent RS422/485 serial cable replacement
- Bluetooth Specification v2.0 + EDR
- Supports up to 4 multiple simultaneous connections
- Basic Transmit Power: Max. +18dBm, EDR Transmit Power: Max. +6dBm
- Receiving Sensitivity: -88dBm(0.1%BER)
- Supports Bluetooth profiles SPP(Serial Port Profile)
- Interoperability with PDA, laptops etc.
- Supports firmware upgrade via windows-based software (ParaniUpdater)
- Working distance ( In an open field ): Nom. 100 meters, up to 1000m using patch antenna
- Easy to use Windows configuration tool available.
- No external drivers required.

**The Parani-SD1100** is a Class1 type of Bluetooth Serial Adapter that supports 100 meters of wireless transmit distance by default. The Parani-SD1100 has an extension option so that users can extend the transmit distance up to 1000 meters using optional antennas. It supports Bluetooth v2.0+EDR specification. The Parani-SD1100 also supports up to 4 multiple simultaneous connections.

Typical application areas of the Parani-SD1000 include:

- RS422/485 Cable Replacement
- Truck/Bus Monitoring System
- Car Diagnostics
- Wireless POS System
- Wireless Machine(Healthcare/Industrial) Monitoring
- Wireless Factory Monitoring
- PLC Programming
- Wireless Printing
- Wireless Logistics

### Panel Layout



## Specifications

### Serial Interface

- Serial speed up to 921.6kbps
- RS422: TXD+, TXD-, RXD+, RXD-
- RS485: TRXD+, TRXD-

### Bluetooth Interface

- Bluetooth v2.0 + EDR
- Class 1
- Profiles - SPP
- Working distance (in open field)
 

SAT-G01R	- SAT-G01R	100 meters
SAT-G01R	- DAT-G01R	150 meters
DAT-G01R	- DAT-G01R	200 meters
DAT-G01R	- DAT5-G01R	300 meters
DAT-G01R	- PAT-G01R	500 meters
DAT5-G01R	- DAT5-G01R	400 meters
DAT5-G01R	- PAT-G01R	600 meters
PAT-G01R	- PAT-G01R	1,000 meters

#### [Antennas]

- SAT-G01R: +1dBi Stub Antenna
- DAT-G01R: +3dBi Dipole Antenna
- DAT5-G01R: +5dBi Dipole Antenna
- PAT-G01R: +9dBi Patch Antenna

**Max. Tx power:** +18dBm

**Receive Sensitivity:** -88dBm

### Configuration

- ParaniWin, ParaniUpdater
- Modem AT command set

### Diagnostic LED

- Power
- Standby
- Connect
- Serial-Tx
- Serial-Rx

### Power

- Power input: 5~12VDC
- Power Consumption: Minimum 2mA, Maximum 80mA
- Common Power supply options
  - Power via a standard AC-plug DC-adaptor
  - Power via USB power cable
  - Power via DC power cable
  - Power via pin 9 of DB9 connector
  - Battery Pack (Standard & Extended)

### 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)
  - 76 x 31 x 16 (mm)
- Weight
  - 24g

### Certification

- FCC, CE, KCC, TELEC, SIG

### Warranty

- 3-year limited warranty

## Ordering Information

### Single Pack SD1100-A1 Includes ✖ Stub antenna NOT included

- SD1100: SD1100 Bluetooth-serial adapter

### Single Pack SD1100-00 Includes

- SD1100: SD1100 Bluetooth-serial adapter
- DPA-G01: Parani-DPA DC power cable for SD series
- UPA-G01: Parani-UPA USB Power Cable
- SAT-G01R: 1 dBi Stub Antenna - RP-SMA Plug Right-hand Thread
- DB9FTB-G01: DB9 Male to TerminalBlock Adapter
- CD-ROM

### Single Pack SD1100-01 Includes

- Single pack SD1100-00
- OPA-G01: Parani-OPA External Power Adaptor - Includes one of four (EU, America, UK, Australia) regional power plugs
- DB9FTB-G01: DB9 Male to TerminalBlock Adapter

### Bulk Pack SD1100-B10 Includes

- SD1100(×10EA): SD1100 Bluetooth-serial adapter
- SAT-G01R(×10EA): 1 dBi Stub Antenna - RP-SMA Plug Right-hand Thread
- DPA-G01(×10EA): Parani-DPA DC power cable for SD series

### Optional Accessories

- SAT-G01R: 1 dBi Stub Antenna - RP-SMA Plug Right-hand Thread
- DPA-G01: Parani-DPA DC power cable for SD series
- UPA-G01: Parani-UPA USB Power Cable
- OPA-G01: Parani-OPA External Power Adaptor - Includes one of four (EU, America, UK, Australia) regional power plugs
- DAT-G01R: 3 dBi Dipole Antenna - RP-SMA Plug Right-hand Thread
- DAT5-G01R: 5 dBi Dipole Antenna - RP-SMA Plug Right-hand Thread
- PAT-G01R: 9dBi Patch Antenna with RP-SMA Plug Right hand Thread Default Cable. (SMA Jack Right hand Thread w/o Default Cable)
- SEC-G01R: 15cm Extension Cable(For SAT-G01R / DAT-G01R / DAT5-G01R)
- RFC-G01R: 1m Extension Cable(For PAT-G01R)
- DB9FTB-G01: DB9 Male to TerminalBlock Adapter
- LTC100PC: LTC100PC RS232-RS422/485 converter for Parani-SD1100, port-powered, DC power supply optional

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

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