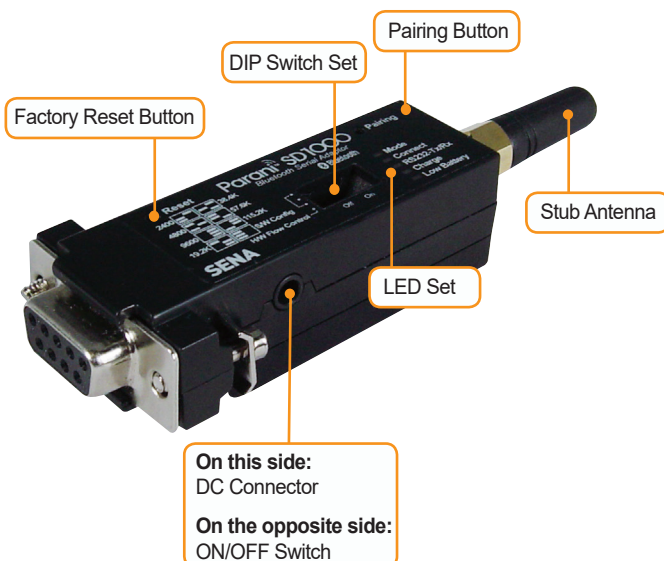# Parani™ SD1000

Features

- Bluetooth Specification v2.0 + EDR
- Provides transparent RS232 serial cable replacement
- 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 400m using 5 dipole antenna
- Enhanced portability: standard & extended battery pack
  options
- Easy to use Windows configuration tool available.
- No external drivers required.

Panel Layout

Factory Reset Button

DIP Switch Set

Pairing Button

Stub Antenna

LED Set

On this side:
DC Connector

On the opposite side:
ON/OFF Switch

The Parani-SD1000 is a Class1 type of Bluetooth Serial Adapter that supports 100 meters of wireless transmit distance by default. The Parani-SD1000 has an extension option so that users can extend the transmit distance up to 400 meters using 5 dipole antennas. It supports Bluetooth v2.0+EDR specification. Parani-SD1000 has two battery-pack options, standard and extended battery pack. By these options, Parani-SD1000's portability is more enhanced. The Parani-SD1000 also supports up to 4 multiple simultaneous connections.

Typical application areas of the Parani-SD1000 include:
- RS232 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

Parani™

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Specifications

Serial Interface
- Serial speed up to 921.6kbps
- CTS/RTS flow control, DTR/DSR for loop-back & full transfer

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
DAT5-G01R - DAT5-G01R	400 meters

[Antennas]
SAT-G01R: +1dBi Stub Antenna
DAT-G01R: +3dBi Dipole Antenna
DAT5-G01R: +5dBi Dipole Antenna

Max. Tx power: +18dBm

Receive Sensitivity: -88dBm

Configuration
- ParaniWin, ParaniUpdater
- Modem AT command set

Diagnostic LED
- BT Status (mode)
- Connect
- RS232-RX/TX
- Charging/Done (Battery Charging/ Battery Charging completed)
- Low Battery

Power
- Power input: 5~12VDC
- Power Consumption: Minimum 2mA, Maximum 80mA

Battery Pack
- Capacity
  · 240 mAh(standard)
  · 900 mAh(extended)
- Charging Power: minium 5V/200mA
- Charging Time
  · Approximately 2 hours (standard)
  · Approximately 5 hours (extended)
- Battery life (Test based on 9600 bps data loopback. Actual battery life varies by configuration, operating conditions and other factors)
  · Approximately 4.5 hours (standard)
  · Approximately 16.5 hours (extended)

Environmental
- Operating temperature: -40˚C to 85˚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) (No battery pack)
  · 76 x 31 x 19.5 (mm) (with standard battery pack)
  · 76 x 31 x 31.4 (mm) (with extended battery pack)
- Weight
  · 24g (No battery pack)
  · 30g (with standard battery pack)
  · 42g (with extended battery pack)

Certification
- FCC, CE, KC, TELEC, IC, Bluetooth SIG

Warranty
- 3-year limited warranty

Ordering Information

Single Pack SD1000-A1 Includes   ※ Stub antenna NOT included
- SD1000: SD1000 Bluetooth-serial adapter

Single Pack SD1000-00 Includes
- SD1000: SD1000 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
- FM9GD-G01: DB9 Female to Male Gender Changer

Single Pack SD1000-01 Includes
- Single pack SD1000-00
- OPA-G01: Parani-OPA External Power Adaptor-International - 4 types: EU, America, UK, Australia

Bulk Pack SD1000-B10 Includes
- SD1000(×10EA): SD1000 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-International - 4 types: EU, America, UK, Australia
- BPC-G02: Parani-BPC standard Battery Pack for SD1000
- BPC-G03: Parani-BPC extended Battery Pack for SD1000
- 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 Extension Cable(For SAT-G01R / DAT-G01R / DAT5-G01R)
- FM9GD -G01: DB9 Female to Male Gender Changer

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SENA