Parani-SD100/200

Features

- Provides transparent RS232 serial cable replacement.
- Supports Bluetooth 1.2 stack - improved AFH(Adaptive Frenquency Hoping), Fast connection.
- Supports Bluetooth Serial Port Profile.
- Interoperability with PDA, laptops etc.
- Supports firmware upgrade via windows-based software(ParaniUpdater)
- Working distance:
  Parani-SD100 : Class 1, Nom. 100 meters,
  up to 1000m using patch antenna
  Parani-SD200 : Class 2, Nom. 30 meters,
  up to 300m using patch antenna
- Software-free configuration support using DIP-Switch and pairing button
- Parani-SD200 : Supports battery pack (Two AA battery)
- No external drivers required.

Parani-SD Series is a Bluetooth serial adapter product line based on Bluetooth technology. Parani-SD Series enables RS232-based serial devices to communicate wirelessly throughout the range of 30m ~ 300m (Parani-SD200-Class 2) or 100m ~ 1000m (Parani-SD100-Class 1).

Users may configure the Parani-SD Series by using combination of DIP-switch and Pairing button, easy-to-use Windows-based utility software or by using standard AT command set.

Using DIP-switch of the Parani-SD Series, user can simply configure baud rate and hardware flow control settings of the Parani-SD Series. Pairing-button enables two Parani-SD Series units to be connected automatically.
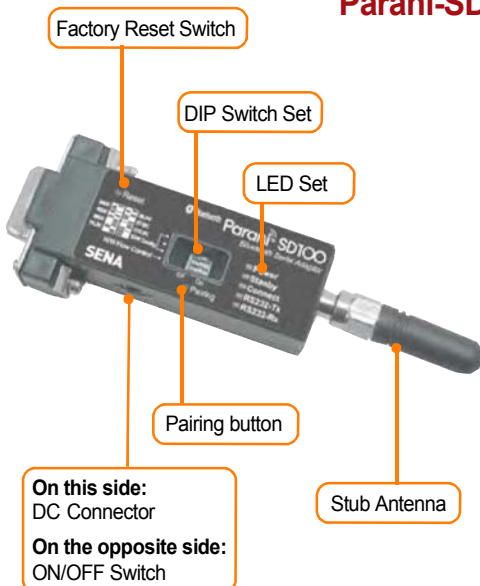
Flexible power supply options allow users to choose which options suits them best, i.e. Power by DC power cable, Power by external DC adapter, Power by USB power cable, Power by pin 9 of DB9 connector. The Parani-SD supports battery pack that can carry two AA batteries. Users can use both general type batteries or rechargeable ones. Battery pack allows users to recharge the batteries.

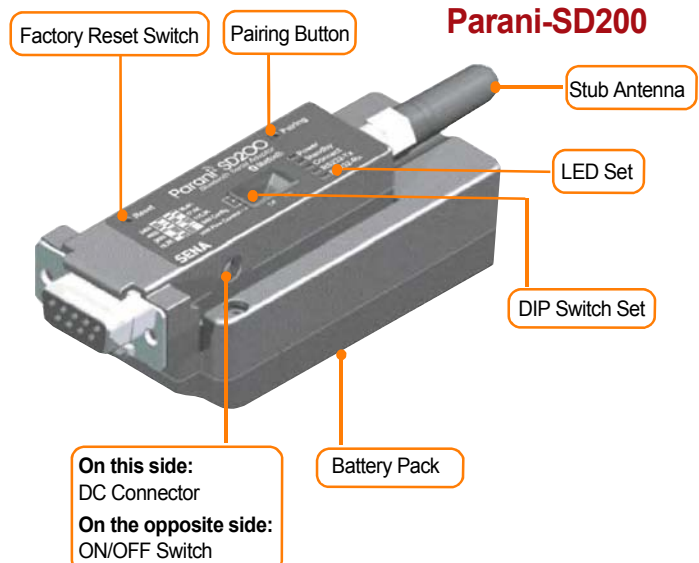Typical application areas of the Parani-SD Series include:
- RS232 cable replacement
- Truck/Bus monitoring system
- Car Diagnostics
- Wireless POS system
- Wireless machine(healthcare/industrial) monitoring
- Wireless Factory monitoring
- PLC programming
- Wireless Printing
- Wireless logistics

Panel Layout

Parani-SD100

Factory Reset Switch

DIP Switch Set

LED Set

Pairing button

On this side:
DC Connector

On the opposite side:
ON/OFF Switch

Stub Antenna

Parani-SD200

Factory Reset Switch

Pairing Button

Stub Antenna

LED Set

DIP Switch Set

On this side:
DC Connector

On the opposite side:
ON/OFF Switch

Battery Pack

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Specifications

Serial Interface:
- RS232, Female DB9, 1200 ~ 230 Kbps
- CTS/RTS flow control: Default
- DTR/DSR for loop-back & full transfer

Bluetooth Interface:
- Parani-SD100 :
  - Bluetooth v1.2
  - Class I
  - Level - 18 dBm
  - Protocols - RFCOMM, L2CAP, SDP
  - Profiles - General Access Profile, Serial Port Profile
  - Working distance
    Default Antenna - Default Antenna 100 meters
    Default Antenna - Dipole Antenna 150 meters
    Dipole Antenna - Dipole Antenna 200 meters
    Patch Antenna   - Dipole Antenna 400 meters
    Patch Antenna   - Patch Antenna 1,000 meters

- Parani-SD200 :
  - Bluetooth v1.2
  - Class 2
  - Level - Max. 4 dBm
  - Protocols - RFCOMM, L2CAP, SDP
  - Profiles - General Access Profile, Serial Port Profile
  - Working distance
    Default Antenna - Default Antenna 30 meters
    Default Antenna - Dipole Antenna 50 meters
    Dipole Antenna - Dipole Antenna 80 meters
    Patch Antenna   - Dipole Antenna 150 meters
    Patch Antenna   - Patch Antenna 300 meters

Configuration:
- ParaniWin, ParaniUpdater
- Modem AT command set

Diagnostic LED:
- Power
- Standby
- Connect
- RS232-Tx
- RS232-Rx

Power:
- Parani-SD100 :
  - 5V~12V, minimum 300mA nominal power consumption of 40mA@9600bps and 72mA@115Kbps speed
- Parani-SD200 :
  - 5V~12V, minimum 150mA nominal power consumption of 35.3mA@9600bps and 40mA@115Kbps speed
- Common Power supply options:
  - Power via a standard AC-plug DC-adapter
  - Power via USB power cable
  - Power via DC power cable
  - Power via pin 9 of DB9 connector
  - Battery Pack for SD200 only

Environmental:
- Operating temperature:
  -10 c to 55 c
- Storage temperature:
  -20 c to 70 c
- Humidity: 90% Non-condensing

Physical properties:
- Dimension (L x W x H)
  SD100 - 96 x 31 x 16 (mm), 3.8 x 1.2 x 0.6 (in.)
  SD200 - 101 x 31 x 16 (mm), 4.0 x 1.2 x 0.6 (in.)

Certification:
- FCC, CE, MIC

Warranty:
- 1-year limited warranty

Ordering Information

SD100   Parani-SD100 Bluetooth-Serial Adapter-Class1-DIP

SD200   Parani-SD200 Bluetooth-Serial Adapter-Class2-DIP

Single Pack Includes :
- DPA : Parani-DPA DC power cable for SD series
- UPA : Parani-UPA USB Power Cable
- SAT : Parani-SAT Stub Antenna-SMA Male-Left Handed
- OPA : Parani-OPA External Power Adaptor-International - 4 types: EU, America, UK, Australia or
  EPA : Parani-EPA External Power Adaptor-220V
- CD-ROM

10-Unit Bulk Pack Includes :
- SAT : Parani-SAT Stub Antenna-SMA Male-Left Handed
- DPA : Parani-DPA DC power cable for SD series

Optional Accessories :
- UPA : Parani-UPA USB Power Cable
- OPA : Parani-OPA External Power Adaptor-International - 4 types: EU, America, UK, Australia OR
  EPA : Parani-EPA External Power Adaptor-220V
- BPC: Parani-BPC Battery Pack for SD200 only.
- SPC : Parani-SPC Serial Power Cable + Power Adapter
- DAT : Parani-DAT Dipole Antenna-SMA Male-Left Handed
- PAT : Parani-PAT Patch Antenna-SMA R/A Female-Right Handed
- RFC : Parani-RFC 1m Antenna Extension Cable for all antennas
- CD-ROM

**For more information, please visit us at
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