Bluetooth® RS-232 Serial Port Adapter

A Transparent Wireless Cable

SMART Modular's Serial Port Adapter is a high-performance, low-power serial port cable replacement. The Serial Port Adapter is ideal for applications in telematics, telemetry and industrial data acquisition areas. SMART Modular's Serial Port Adapter conforms to the industrial standard EIA-232-E for serial data communications. The adapter detects power from pin 9 of the RS-232 connector if available.

SMART Modular Technologies, Inc., a leading independent manufacturer of memory and communication sub-systems offers more than 500 products to premier OEMs in the computer, networking and telecommunications industries. SMART offers customers competitive outsourcing advantages, such as access to advanced manufacturing technologies, shortened product time-to-market, reduced total cost of ownership and more effective asset utilization.

SMART Modular Technologies Communications Products Division (CPD) has extensive experience & focus upon leading-edge, client-side personal communication sub-systems for wireless and wired Personal Area, Local Area and Wide-Area Networks.

FEATURES
- Embedded Bluetooth® Protocol Stack
- Host or Client roles supported
- Board Mounted Antenna
- Class 2 Bluetooth Device
- Bluetooth 1.1 compliant
- Range up to 30m with Class 2
- Auto detect power source

SERIAL INTERFACE
- Standard male RS-232 DSUB-9M connector for DTE operation
- Standard female RS-232 DSUB-9F connector for DCE operation
- Supports point-to-point paired operation
- Master/Slave software Switch supported
- Supported Baud rates 300 – 921kbps in increments of 244bps

PROFILES SUPPORTED
- Serial Port Profile (SPP)
- Generic Access Profile (GAP)
- Service Discovery Application Profile (SDAP)

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Bluetooth Specification

- Complies to Bluetooth 1.1 specification
- Supports Class 2 operation
- Bluetooth Class 2 (2dBM typ)
- Sensitivity typ –82 dBm
- Over air max data rates up to 600kbps depending on application and conditions

Flow Control

- CTS/RTS, None, Mark and Space
- Data bits : 8 only
- Parity : odd, even, none
- Stop bits : 1, 2
- Bluetooth parameters (Role : Host / Client), Security (PIN Key), Pairing (Setting peer Bluetooth address)

Interface Options:

- Supports point-to-point paired operation
- Supports point-to-multi-point operation via master/slave switch
- Supports Sniff/Hold
- Supports Master/Slave switch
- High speed UART 9.6 kbps to 921 kbps, user programmable
- 8 Mbit/1MB Flash Memory

Power:

- 4.5-14 VDC (+/- 10%) input
- Auto detects power source; external or pin 9 of RS-232

Power Consumption:

- <150mA max during continuous TX/RX
- 100-120mA typical
- 1mA max during sleep

Environmental Specification:

- Operating temperature: -10 - +85°C
- Storage temperature: -10 - +105°C
- Humidity: 5 – 95% non-condensing

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