

Socket Cordless Serial Adapter

with Bluetooth® Wireless Technology

RS-232 Serial Cable Replacement



Socket's Cordless Serial Adapter with *Bluetooth* Wireless Technology eliminates your conventional RS-232 serial cable, providing an easy-to-use, invisible connection. This tiny adapter allows any device with a standard 9-pin serial port to communicate wirelessly. It will communicate with another Cordless Serial Adapter or any *Bluetooth* enabled device such as a laptop computer, PDA or mobile phone. Take advantage of Personal Area Networking easily and quickly.

You don't need to install any drivers on the host device — just plug into the 9-pin serial port on your industrial equipment and wirelessly download the information you need to any *Bluetooth* enabled mobile computer (i.e., notebook, Pocket PC, Palm or Mac OS device). Reduce costs by decreasing cycle times for equipment maintenance and servicing through easier access to serial ports in difficult or dangerous-to-access areas. Do you have cabled connections you would like to replace with a cordless solution? Attach a Cordless Serial Adapter on each side and presto — your bulky cables are gone.

Included in the package is the Socket Cordless Serial Adapter Configuration Utility, an easy-to-use Windows application which lets you to reprogram many of the default settings on your Cordless Serial Adapter. You can custom configure settings to match your individual needs. The utility runs under Windows 95, 98, Me, 2000 or XP*. Socket also includes a 9-pin female/female null modem connector.

You can also reprogram your Cordless Serial Adapter manually through commands via a terminal device. Socket's Command Set documentation provides even more extensive options for custom configurations.

The Cordless Serial Adapter communicates over the *Bluetooth* Serial Port Profile. The adapter can be powered from the included AC power plug or from the host device over pin 9 on the Cordless Serial Adapter.



FEATURES

- Class 2 *Bluetooth* module
- *Bluetooth* SIG Certified 1.1 compliant
- Default baud rate 19,200 bps — configurable from 1,200 to 230,000
- Internal antenna
- 9 pin male DB-9 connector, DTE
- *Bluetooth* status LED gives instant info on *Bluetooth* link status
- Standard external US power supply comes with two European and one Australian adapter. Alternatively, power can be supplied over Pin 9 of the adapter from host unit. Voltage 80 mA at 3 or 5 V

Software Features

- Cordless Serial Adapter Configuration Utility allows you to attach the RS-232 Adapter to the serial port of a notebook or PDA to configure the following settings:
 - Baud rate
 - Stop bits
 - Data bits
 - Parity
 - Flow control
 - Discoverable on/off
 - Connectable on/off
 - Enable security mode
- Software runs on Windows 98 Second Edition, Me, 2000, XP
- *Socket Command Set* documentation allows manual configuration through a terminal device for maximum flexibility

Bluetooth Profiles

- General Access Profile
- Service Discovery Profile
- Serial Port Profile

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Common Usage Scenarios

Scenario 1: Set up a CSA pair as serial cable replacement.



Scenario 2: Set up the CSA as a passive serial Bluetooth receiver.



Note: The Cordless Serial Adapter was primarily designed for use with industrial serial equipment. Because of power requirements, custom drivers, and custom serial communication protocols, the Cordless Serial Adapter is not intended for use with some consumer serial devices, including but not limited to: 56k modems, cellular phone data cables, digital camera data cables, joysticks, keyboards, mice, Pocket PC cradles, scanners, etc. The Cordless Serial Adapter was also not designed to Bluetooth enable your computer for ActiveSync.



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SPECIFICATIONS

Antenna: Integrated
Class 2 Bluetooth module
Connector: 9 pin male DB-9, DTE
Weight: 0.8 oz (23 g)

Baud Rate:
Default: 19,200 bps
Configurable range: 1,200-230,000 bps

Power Consumption:
The power supply should be able to provide at least 200 mA to ensure proper operation.

- **Connected Mode:**
Average: 40.5 mA *Max:* 76.5 mA
- **Connected standby (RS-232 transceiver off)**
Average: 3.5 mA *Max:* 53.0 mA
- **Waiting to connect**
Average: 39.1 mA *Max:* 55.9 mA
- **Waiting to connect standby (RS-232 transceiver off)**
Average: 2.3 mA *Max:* 19.1 mA

Power Mechanisms:
The CSA operates from DC power and can be powered via one of two mechanisms:

- 1. From the Power Jack on the CSA.**
When supplying DC power to the power jack:
 - The acceptable supply voltage for normal operation ranges from 3.5 to 5.5 VDC, with an Absolute Maximum of 5.6V.
 - The Power supply must rise to its final voltage in less than 1mS.
 - For specifications of the power jack's physical connector, refer to SMK part # LGP3131-0111 at <http://www.smk.co.jp>.
- 2. From Pin 9 of the DB-9 Connector.**
The acceptable supply voltage ranges from 3.5 to 12 VDC (Absolute Maximum 12V).

The CSA was not intended to be connected directly to a vehicle's electrical system, although a cigarette lighter adapter/DC charger is permissible.

Environmental Conditions:
Operating Temp.: -20 to +85° C
Storage Temp.: -40 to +95° C
Humidity: 5% to 95% non-condensing

Cordless Serial Adapter Configuration Utility Software Support:
Windows 98 SE, Me, 2000, XP

Certification:
FCC: Part 15, Class B C-Tick: s. 182
ETS 300 328, ETS 300 826 TELEC
Bluetooth 1.1 Industry Canada

Bluetooth Profiles: General Access, Service Discovery, Serial Port

Warranty: One year

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