



OEM Serial Port Adapter™

Migrating from Bluetooth 1.1 to 2.0 products - Electrical and Mechanical Aspects

A migration from a cB-OEMSPA13 or cB-OEMSPA33 module to a cB-OEMSPA310, cB-OEMSPA311, cB-OEMSPA331, cB-OEMSPA312, cB-OEMSPA332 or cB-OEMSPA333 module is normally done without any problems. Even so, there are some issues that have to be considered.

- The resistance value of the pull-down resistors needs to be decreased to 1k Ω . It is especially important to be observant on the Mode and Switch-1 signals. This point is not necessary for the cB-OEMSPA333 modules and 10k Ω can still be used. See the LED and Switch Design Examples in the Electrical & Mechanical Datasheet for the product for more info.
- The High- and Low-signal definitions are slightly changed on the Logic Level signals. Especially consider the Low-level definition on the Switch-0 signal. See the Input/Output signals section in the Characteristics chapter in the Electrical & Mechanical Datasheet for the product for more info.
- A 5V system using resistor dividers to adapt the 5V TxD output signal of the host to the 3V levels of the OEMSPA RxD input signal should decrease the resistor values to 1.8k Ω and 2.2k Ω . See the Logic Levels Design Examples in the Electrical & Mechanical Datasheet dated 2007-03-23 or later for the product for more info.
- The antenna and antenna connector locations are different. See the Board outlines section in the Electrical & Mechanical Datasheet for the product for more info.

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