

Interface Development for Computer-Based SMS Transmission and Reception

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Abstract

This application is aimed to develop the core hardware and software components in a communication between the computer and a mobile phone, on the serial/USB interface, in order to transmit, receive or interpret SMS text messages. In this way we open the path for further development of complex applications where the role of the computer may be the one of an SMS gateway. Such applications arise from the need to remotely control a process via GSM without using dedicated machines that are usually costly; instead, using an everyday mobile phone could be a much cost effective solution. The current version of the implementation is available for the following applications: sending a specified message to a specified mobile phone number, receiving and interpreting an SMS text message as a command for the PC. We envisage that this module could be integrated into other applications which would use its features.