THE TRANSMISSION OF BINARY SMS MESSAGES FROM APPLICATION SYSTEMS EQUIPPED WITH AT89C51 FAMILY MICROCONTROLLERS

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The paper describes the hardware structure of a binary data transmission system using SMS messages, based on an application system equipped with an AT89C51 family micro-controller and on a SIEMENS M55 mobile phone with modem. The command program performs an initialization and peripheral circuits programming sequence, data retrieval, communications setting with the mobile phone, data packing, called number packing, set-ting the other fields in order to create the SMS message according to "Protocol Data Unit". In the end, it transmits the message to the mobile phone using AT commands.