

MONITOR PROGRAM FOR DEVELOPMENT SYSTEM EQUIPPED WITH AT89S52 MICROCONTROLLER

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The hardware structure of a development system equipped with AT89S52 microcontroller that communicates through RS232 serial interface with a personal computer is described. This system is used for testing and checking various user applications based on systems equipped with ATMEL family microcontrollers.

Also, the principle structure of a monitor program used in a development system equipped with AT89S52 microcontroller is described. Implemented by soft commands perform displaying and/or substituting the system resources (internal data memory, a memory space for special functions register, internal/external memory program, external data memory), communicating through the serial interface with a computer or another microsystem, loading of user programs assembled in a computer, user program running, transferring a memory zone, filling a memory zone with a constant, etc.