

Annotation

On the theme: "Analysis of high-performance microcontrollers for the construction of autonomous devices for remote interaction with monitoring objects"

This report discusses hardware tools and hardware and software support for 32-bit microcontrollers of the STM32 family.

The main attention is paid to microcontrollers STM32 series M3, M4.

Considered ARM Cortex microcontrollers from STMicroelectronics. An overview of the main parameters of the STM32F407 microcontroller is made.

The features of ARM Cortex programming of STMicroelectronics on C / C ++ and on Linux are considered. To program this microcontroller features of software development using software generators, and C / C ++ language are considered. A review of Keil MDK - a development environment for ARM Cortex-M core microcontrollers and the CooCoxCoIDE environment.

EmBlocks environment is cross-platform, that is, it works both under Linux and under Windows.