The ST72F32A and ST7232A devices are members of the ST7 microcontroller family designed for the 5V operating range. The 32 and 44-pin devices are designed for mid-range applications.

All devices are based on a common industry-standard 8-bit core, featuring an enhanced instruction set and are available with FLASH or ROM program memory.

Under software control, all devices can be placed in WAIT, SLOW, ACTIVE-HALT or HALT mode, reducing power consumption when the application is in idle or stand-by state.

The enhanced instruction set and addressing modes of the ST7 offer both power and flexibility to software developers, enabling the design of highly efficient and compact application code. In addition to standard 8-bit data management, all ST7 microcontrollers feature true bit manipulation, 8x8 unsigned multiplication and indirect addressing modes.

Figure 1. Device Block Diagram