EM78P153S

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IC

EM78P153S
SOP,DIP

gpio type mcu family

em78153s

general descriptionem78p153s is an 8-bit microprocessor with low-power and high-speed cmos technology. it is equipped with a 1024 x 13-bits electrical one time programmable read only memory (otp-rom) within it. it provides a protection bit to prevent intrusion of user's code in the otp memory as well as 15 option bits to match user's requirements. with its otp-rom feature, the em78p153s offers users a convenient way of developing and verifying their programs. moreover, user developed code can be easily programmed with the elan writer.

features14-lead packages : em78p153soperating voltage range : 2.3v~5.5vavailable in temperature range: 0℃~70℃coperating frequency range (base on 2 clocks):* crystal mode: dc~20mhz at 5v, dc~8mhz at 3v, dc~4mhz at 2.3v.* erc mode: dc~4mhz at 5v, dc~4mhz at 3v, dc~4mhz at 2.3v.low power consumption:* less then 1.5ma at 5v/4mhz* typical of 15μa, at 3v/32khz typical of 1μa, during the sleep mode1024 x 13 bits on chip rombuilt-in calibrated irc oscillators (8mhz, 4mhz, 1mhz, 455khz) programmable prescaler of oscillator set-up timeone security register to prevent the code in the otp memory from intrudingone configuration register to match the user's requirements32×8 bits on chip registers (sram, general purpose register)2 bi-directional i/o ports5 level stacks for subroutine nesting8-bit real time clock/counter (tcc) with selective signal

sources and trigger edges, and with overflow interruptpower down mode (sleep mode) three available interruptions* tcc overflow interrupt* input-port status changed interrupt (wake up from the sleep mode) * external interruptprogrammable fr running watchdog timer 7 programmable pull-high i/o pins 7 programmable open-drain i/o pins 6 programmable pull-dow i/o pinstwo clocks per instruction cyclepackage type: 14 pins sop, dip* 14 pin dip 300mil: em78p153sp* 14 pin sop 150mi em78p153snthe transient point of system frequency between hxt and lxt is around 400khz.