

Features

- High performance, Low power AVR 8-bit microprocessor
- Built-in 64KB ISP Flash memory / 4KB SRAM
- On board updateable 128KB EEPROM
- One isolated RS485 / 422 / 232, 1 x RS232
- High speed SPI and I²C
- Lower voltage operation to 3.3V
- Built-in 4-wired resistive touch panel
- Current consumption 180mA
- 240 x 128 monochrome STN LCD
- On-chip power-on reset(POR) and programmable watchdog reset
- Comprehensive set of development tools and application notes for self programming
- RS485 / 422 / 232 driver, SPI driver, I²C driver, touch panel driver, LCM driver and utility are supported
- Dimension (W x H x D): 148 x 74.6 x 20mm

Hardware Specifications

Processor

- ATMEL ATMEGA644P AVR 8-bit microprocessor

Memory

- 64KB in-system programmable flash
- 2KB internal EEPROM
- 4KB internal SRAM
- 64KB x 2 external I²C CMOS EEPROM (option: 64KBx3)

Display Interface

- Support 8-bit single scan 240 x 128 monochrome STN LCD (edge LED white backlight)

RS232 / 422 / 485 Port

- Support dual serial port, one is three-wired RS232, another is shared in among RS232 / isolated RS422 / isolated RS485 port by option

Serial Peripheral Interface

- One full-duplex, three-wired synchronous data transfer SPI port
- One two-wired serial interface(I²C) up to 250KHz data transfer speed

Touch Panel Interface

- Support four-wired resistive touch panel interface

Software Utilities

- Support RS232 / 422 / 485 driver, SPI driver, I²C driver, touch panel driver, and LCM driver for free

DC Requirement

- DC3.3V~5.5V