

# **BE643**

## мр Display Embedded System































## **Features**

- High performance, PIC32 32-bit microprocessor
- Built-in 512KB ISP flash memory, 64KB SRAM
- Support micro SD
- 1xRS232, 1xSPI, 1xI<sup>2</sup>C
- 1xRS232/422/485/USB port (selected one from four)
- 1xADC, 12xGPIO

- 4.3" TFT-LCD with 480X272 (WQVGA) resolution
- Comprehensive set of device library and programming guide for self programming
- RS232/422/485/USB driver, SPI driver, I<sup>2</sup>C driver, touch panel driver, TFT driver are supported
- Dimension (WxHxD): 125.8x71.5x14.25mm
- Weight: 130g

## Hardware Specifications

## **Processor**

· Microchip PIC32 32-bit microprocessor

#### Memory

- 512KB in-system programmable flash
- 64KB internal SRAM
- 16KB EEPROM

## **Display**

- 4.3" TFT panel 480X272 WQVGA
- With LED Backlight

#### Serial interface

- · One full-duplex, four-wired synchronous data transfer SPI port
- One two-wired serial interface (I2C) up to 400KHz data transfer speed

#### R\$232/422/485/USB port

- RS232 (standard)
- RS232/422/485/USB Port (selected one from four)
- Support dual serial port, one is three-wired RS232, the other is selected from RS232/422/485/USB port

#### External I/O

- Support ADC (1 x channel, 10 bits resolution)
- Support GPIO (12 x GPIO)

#### **Touch Panel Interface**

Support four-wired resistive touch panel interface

### **Software Utilities**

 Support RS232/422/485/USB driver, SPI driver, I2C driver, touch panel driver, and TFT driver for free

#### **DC** Requirement

DC 5V



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