BE643WF
**up Display Embedded System**

### Features
- High performance, PIC32 32-bit microprocessor
- Built-in 512KB ISP flash memory, 64KB SRAM
- Support micro SD
- 1xRS232, 1xI²C
- 1xRS232/422/485/USB port (selected one from four)
- 1xADC, 12xGPIO
- 1xSpeaker
- 4.3" TFT-LCD with 480X272 (WQVGA) resolution
- Comprehensive set of device library and programming guide for self programming
- RS232/422/485/USB driver, I²C driver, touch panel driver, TFT driver are supported
- Dimension (WxHxD): 121.5x69.4x16mm
- Weight: 175g

### 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 two-wired serial interface (I²C) up to 400KHz data transfer speed

### RS232/422/485/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 capacitive touch panel

#### Software Utilities
- Support RS232/422/485/USB driver, I²C driver, touch panel driver, and TFT driver for free

#### DC Requirement
- DC 5V

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**VER: 01**