BE643
Up Display Embedded System

Features

• High performance, PIC32 32-bit microprocessor
• Built-in 512KB ISP flash memory, 64KB SRAM
• Support micro SD
• 1xRS232, 1xSPI, 1xI²C
• 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, I²C 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

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 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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