BE643WF

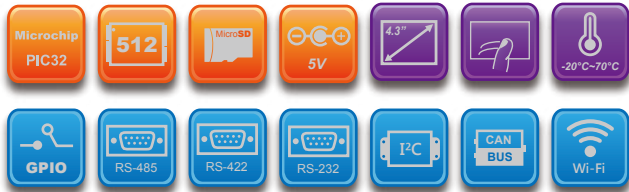## µp Display Embedded System

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 (Optional)
- Wi-Fi (Optional)
- CAN BUS
- 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

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

Real-Time Clock (RTC)

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

Wi-Fi
- IEEE 802.11 b/g/n

CAN BUS
- Full CAN Specification 2.0B compliance

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 user defined GPIO)

Touch Panel Interface
- Support capactive touch panel

Software Utilities
- Support RS232/422/485/USB driver, I²C driver, touch panel driver, and TFT driver for free
- TCP/IP stack for Wi-Fi

DC Requirement
- DC 5V

Environmental Conditions
- Operation Temperature: -20°C ~ 70°C
- Storage Temperature: -30°C ~ 80°C