

# PRODUCT DATASHEET

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# BE220C

## Display Embedded System

### Features

- 400MHz 32 bit RISC architecture ARM926EJ CPU core
- 2GB NAND Flash, 64MB DDRII DRAM
- WINCE 5.0 PRO OS
- LCD controller support 16-bit color 7" TFT
- On-board 10/100Mbps high performance Ethernet with RJ45
- 1xHost USB, 1xDevice USB
- 1xisolated RS485/422
- 3xRS232
- Audio codec with dual-channel amplifier
- 6xChannels ADC and one 4-wire touch panel
- 12 programmable IO
- 9V~28V DC requirement
- Dimension (WxHxD): 190x125x38mm
- Front Bezel

IP66 for Front Bezel



### Hardware Specifications

#### Processor

32 bit RISC architecture ARM926EJ RISC CPU core  
64-way associative cache with I-cache (16KB) and D-cache (16KB)  
400MHz CPU clock

#### OS Memory

WINCE 5.0 with 2GB NAND Flash memory

#### System Memory

16bit 64MB 133MHz DDRII memory

#### SD/MMC Card Socket

Support SD/MMC host interface  
Compatible with SD memory protocol and SD media card protocol

#### Serial Port

Support 2x3-wired DMA-based operation UART  
1xRS485/422 isolated communication port

#### USB Ports

Support 1xUSB host compatible with USB 1.1  
Support 1xUSB device compatible USB 2.0

#### Audio Codec

Software programmable volume control and mute control  
Dual channels 2 watts speaker output

#### GPIO

Support 12xinterrupt-based IO sharing with Keyboard interface

Key Pads Interface (Shared with GPIO)  
Support 12 Interrupt-based IO

#### ADC (optional)

Support 6xchannel 12-bit high speed A/D converter

#### Touch Panel Interface

Support 4-wire resistive type touch panel interface

#### Display

Support 262k color TFT at 16bpp mode with 800x480 resolution  
With LED Backlight

#### Ethernet Controller

High performance 16-bit 10/100 Ethernet controller fully compliant with IEEE 802.3/802.3u standards  
RJ45 connector with active and link LED indicators

#### WLAN Module (optional)

Support WLAN module compliant with IEEE 802.11b/g  
Operating on 2.4GHz ISM radio band  
Wi-Fi compliant

#### Power Requirement

DC9V~28V power requirement with short circuit protection

#### Operating Temperature

TFT -20°C ~ 70°C T/P -20°C ~ 70°C

Front bezel compliant with IP66



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