

BEGA230A

Display Embedded System



Features

- 1 GHz 32-bit ARM Cortex-A8 CPU Core , TI TMS320C64X+ DSP Core
- Notebook-like performance at low power consumption
- 512MB LPDDR
- 8GB NAND Flash eMMC I/F
- WINCE 6.0 OS
- Support SD/MMC Card
- 7" TFT LCD with 800 x 480 Resolution
- 4-wired Resistive Touch Panel
- 1 x Simple RS232 , 1 x Isolated RS485/422
- 8 x GPIO / 1 x USB OTG / 1 x USB Host
- On board 10/100Mbps Ethernet with RJ45
- WLAN IEEE 802.11b/g/n 2.4GHz
- Bluetooth 2.1+EDR
- 2 x Channels ADC
- DC 9V~28V Power Requirement

Hardware Specifications

Processor

- TI DaVinci DM3730 Dual Core Processor
- 1GHz ARM Cortex-A8 MPU Core + 800MHz TMS320C64X + DSP Core
- On-chip L1 Cache: 32KB I-Cache and 32KB D-Cache
- On-chip L2 Cache: 256KB
- On-chip 64KB RAM
- On-chip 32KB ROM (ARM) + 16KB ROM (DSP)
- POWERVR SGX 2D/3D Graphics Accelerator (30MPoly/sec)
- High Performance Image, Video, Audio (IVA2.2) Accelerator
- HD video 720p 30fps

OS

- Microsoft Windows Embedded CE 6.0

System Memory

- LPDDR SDRAM 512MB (256MB X 2 components)

Internal Storage

- 8GB MLC NAND Flash (eMMC 4.41 I/F)

External Storage

- Support SD/MMC Card Slot
- Compatible with SD Memory Protocol and SD Media Card Protocol

Display

- 7" TFT LCD 800 x 480 (TTL I/F)
- LED Backlight Supported
- 4-wired Resistive Touch Panel
- S-Video Interface Supported

Ethernet Controller

- 10/100 Mbps Ethernet Controller Fully Compliant with IEEE 802.3/802.3u Standard

WLAN

- IEEE 802.11b/g/n Mode (Wi-Fi)

Bluetooth

- Bluetooth 2.1+EDR Supported

USB Host

- 1 x USB 2.0 Standard-A Receptacle

External I/O

- Support 1 x USB OTG of mini-B Receptacle
- Support 2 Channels A/D Converter
- Support 2 Watts Dual Channels Speaker Out
- Support 4 Input and 4 Output GPIO
- Support 1 x 2-wired RS232 and 1 x Isolated RS485/422

Power Supply

- DC 9V~28V Adapter-In

Operation Temperature

- TFT : -20 °C ~ +70 °C

Enclosures Case

- Metal / Plastic



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