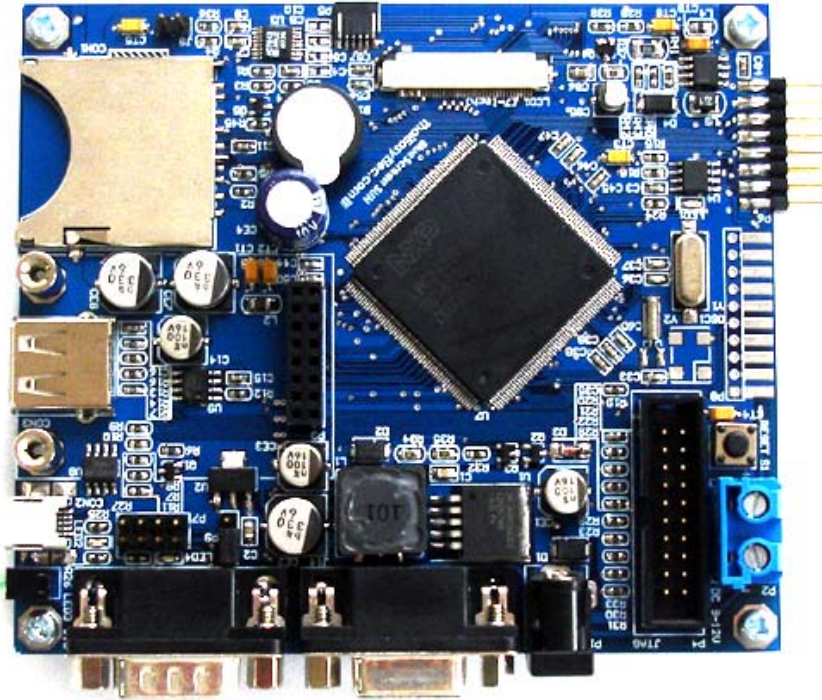


Product Brief

ETEE012 - Bluescreen SUN



Enable Your Design
ThaiEasyElec.com

On-line Electronics Shop for Embedded System

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1. Introduction

Blue Screen SUN is a touch screen development board comes with NXP's powerful ARM7 LPC2478, the LCD controller integrated MCU. Addition with 64MB SDRAM, optional Ethernet module, SD card socket, 8kB EEPROM and connectors for resistive-type-4.3-inch and 7-inch touch screen TFT LCD, Blue Screen SUN is the new generation of famous 2.8-inch touch screen development board 'Blue Screen' with bigger size LCD and much more features.

Two source code bundles support non-OS based and OS-based platform. Both platforms share the same touch screen middleware with Blue Screen. Developers who have got familiar with Blue Screen can upgrade there products to bigger LCD easily.

2. Features Hardware

- NXP's ARM7 LPC2478
- 2 of 16-bit Micron's MT48LC16M16A2P-75 SDRAM providing 32-bit, 64MB memory
- Connector for 480x272 pixels TFT LCD with touch screen
- Connectors for 800x480 pixels TFT LCD and 4-wire resistive touch screen panel
- SD card socket (connected via SPI interface) support up to 2GB capacity (High capacity: 'HC' type not supported)
- On board 8kB EEPROM (the last 128 bytes are reserved for screen calibrated parameters)
- Serial Port 0 with selectable UART connector (TTL 3.3v with 5v tolerant) or female DB9 connector (RS232) for command line interface and in-system programming (select by a jumper)
- Serial Port 1 with full modem signals on male DB9 connector
- 7 GPIO ports
- 1 port ThaiEasyElec's module connector consisting of SPI and UART signals from MCU (can be used as 10 GPIO ports)
- One USB host interface with USB type A connector and power switch IC LM3526M-L
- One USB device interface with mini-B USB connector (the board cannot be powered from USB connector)
- Connector for ThaiEasyElec's DP83848 Ethernet module
- JTAG connector for programming and debugging
- Connectors for 9-16VDC power supply (DC jack and screw-type)
- Buzzer

SOME SAMPLE DEMO



BLUESCREEN SUN with 7 inch TFT
Touch Screen



BLUESCREEN SUN with 4.3 inch TFT
Touch Screen



BLUESCREEN SUN with Ethernet
Module

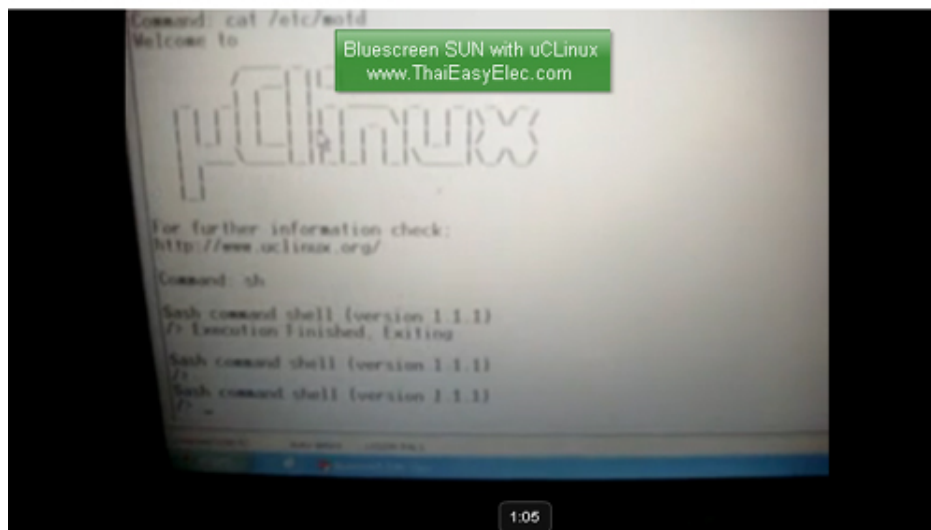
SOME SAMPLE DEMO (Cont.)

BlueScreen SUN coming up!!!



BLUESCREEN SUN Point Of Sale Demo
<http://www.youtube.com/watch?v=7DKAqvJlyLs>

Bluescreen SUN with uCLinux



BLUESCREEN SUN with uCLinux
<http://www.youtube.com/watch?v=NMIM8vTSMuo>

Booting uCLinux from SD Card , Bootloader copy
kernel image from SD Card to SDRAM and Boot

MORE Application , please visit
<http://www.ThaiEasyElec.com>

BLOG SUPPORT
<http://bluescreen-sun-ete012.blogspot.com>

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