SPC-101A

Features

- Intel XScale® PXA270 CPU and Microsoft Windows® CE 5.0
- 10.4" TFT LCD Panel with 4-wire resistive touchscreen
- Built-in Intel 2700G graphics chip with 32 MB VRAM for great media perfromance
- Comprehensive I/O with Ethernet, USB, RS-232, and audio interfaces
- Bezel-mount model: Ideal design for outside-in panel-mounting type
- IP65 approved front bezel
- Adobe® Flash Player & Java Virtual Machine (JVM) as options
- Software configurable RS-485/422/232 port

Introduction

The SPC-101A integrates the Intel XScale PXA270 CPU and Windows CE 5.0. It is designed to provide customers with an embedded display platform with high computing power and good graphic performance. The SPC-101A integrates the Intel 2700G graphics chip that supports MPEG-4 @ 30 frames per second to provide good graphic capabilities for interactive media applications. SPC series supports Adobe Flash Player and Java Virtual Machine (JVM) by project base. Colorful GUIs are easy to develop using Adobe Flash and Java.

Specifications

System Kernel

- **CPU**   Intel PXA270 312 MHz (520 MHz as option)
- **OS**   WinCE 5.0 core Eng. version
- **SDRAM**   64 MB (128 MB as option)
- **Flash**   128 MB (256 MB as option)
- **WDT**   PXA270 internal
- **Boot Loader**   1 MB AMD Flash ROM for boot loader
- **RTC**   HT1381, backup by internal 65 mAh rechargeable coin battery

Display

- **LCD**   10.4" AUO 18-bit TFT LCD SVGA
- **Touchscreen**   4-wire resistive
- **Graphics Chip** Intel 2700G with 32 MB VRAM

I/O

- **COM**   COM1: RS-232 by DB-9 conn.
                    COM2: RS-485/232/422 by phoenix conn., default is RS-485. (S/W configurable)
- **LAN**   1 x 10/100Base-T by RJ-45
- **USB**   2 x USB 1.1 host by type A conn.
- **SD/MMC**   1 x standard slot (support memory and I/O mode)
- **Audio**   Line-out by phone jack
- **Expansion Conn.** 50-pin box headers with: SMbus, Mic-in, Line-in, Line-out, 2-wire RS-232, 1 x USB 1.1 host, 4 x TTL-level DI, 4 x TTL-level DO

Power

- **DC Input**   10 ~ 28 V DC with internal fuse protection via Phoenix conn.
- **Power Consumption** 10.4 W (normal mode w/o peripherals connected)

Mechanical

- **Material**   Front bezel is aluminum, others are made from SPCC
- **Mounting**   Outside-in panel mount

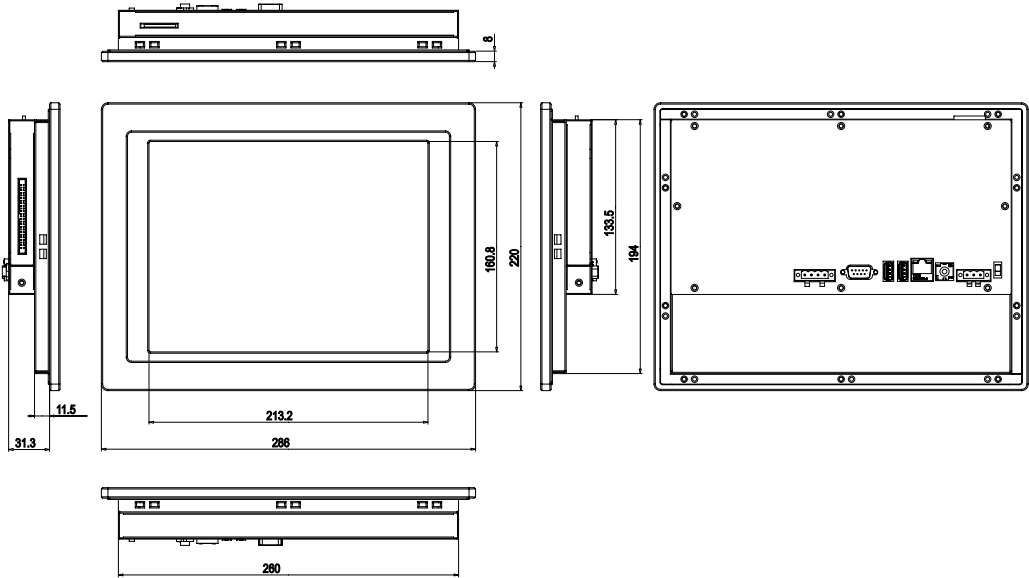### Environment

- **Operating Temp**   0 ~ 50° C
- **Storage Temp**   -20 ~ 60° C
- **Water/Dust Resistance** IP65 front bezel
- **Certification**   CE/FCC/UL

GUI Firmware

- **Adobe Flash Player support (project base)**
- **Java Virtual Machine support (project base)**

Dimensions

Unit: mm

8

160.8

220

133.5

194

11.5

31.3

213.2

286

260

Ordering Information

Part Number	Description
SPC-101A-347CE1E	Intel XScale CPU PXA270 312 MHz with graphic chip, Windows CE 5.0 core version pre-installed with aluminum front-bezel ,10.4" color TFT LCD, and resistive touchscreen (bezel-mount model)
SPC-POWERSET	60 W power adapter with 3-pin power connector (A power cord must be purchased separately)

Packing List

Description	Quantity
SPC-101A	1
Windows CE 5.0 end user license agreement (for Windows CE 5.0 version)	1
CD-ROM 1) Readme.txt, User Manual and Datasheet 2) Upgrade utility 3) Windows CE 5.0 platforms SDK	1
Warranty Card	1
3-pin power connector	1

I/O Diagram

SD

Expansion conn.

Power Switch

COM2(RS485)

COM1(RS232)

USB2

USB1

LAN

AUDIO

DC-Input