

# SPC-100A

## 10.4" TFT Rugged Graphic Operator Interface



### Features

- Intel XScale® IXP420 CPU w/WinCE .NET 4.2 for compact, low power, reliable touch control solution
- 10.4" TFT LCD Panel with 4-wire resistive touch screen
- High networking performance, wire-speed packet processing performance
- Comprehensive I/O interface with Ethernet, USB, RS-232, Audio, Video with MiniPCI I/F for built-in WLAN function.
- Bezel-mount model: Ideal design for outside-in panel-mounting type
- IP65 approved for front bezel
- Designed for building automation, facility control and equipment automation applications
- Macromedia Flash Player & Java Virtual Machine (JVM) as options

### Introduction

The SPC-100 series integrates Intel's RISC XScale IXP420-533 MHz processor and Windows® CE .NET 4.2. It is designed to provide customers with a high computing power embedded display platform with good networking and graphic performance. Each Panel Computer incorporates a high-performance Intel XScale core with additional Network Processor Engines (NPEs) to achieve wire-speed packet processing performance. The SPC-100 series also integrates the SMI501 graphic controller to provide good graphic capabilities for multimedia applications. SPC series supports Macromedia Flash Player and Java Virtual Machine (JVM) by project base. Colorful GUIs are easy to develop using Macromedia Flash and Java.

### Specifications

#### System Kernel

- **CPU** Intel IXP-420 533 MHz (266/400 MHz as option)
- **OS** Windows CE .NET 4.2 professional plus Eng. version
- **SDRAM** 64 MB
- **Flash** 32 MB (64/128 MB as option)
- **WDT** IXP420 internal
- **Boot Loader** 1 MB AMD Flash ROM for boot loader
- **System Control** HW reset button
- **RTC** HT1381, backup by internal coin battery

#### Display

- **LCD** AUO 10.4" 18-bit TFT LCD SVGA
- **Touchscreen** 4-wire resistive
- **VGA Chip** SMI SM501 VGA chip with 8 MB VRAM

#### I/O

- **MiniPCI** 1 x internal MiniPCI slot (for optional WLAN module)
- **RS-232** 3 x RS-232 by DB-9 conn.
- **RJ-45** 1 x 10/100Base-T by RJ-45
- **USB** 4 x USB 1.1 host by type A conn.
- **PCMCIA** 1 x PCMCIA slot type II
- **Video-in** optional
- **Audio** line-out jack

#### Power

- **Input Voltage Range** 10 ~ 28 V DC by phoenix conn.
- **Protection** Power surge protection, electrical pole reversal protection
- **System Backup Battery** Rechargeable Li-ion coin battery 65 mAh for RTC only
- **Power Switch** 1 x slide power switch
- **Power Consumption** 10.4 W (normal mode w/o peripherals connected)

#### Mechanical

- **Material** Front bezel is aluminum, others are made from SPCC
- **Mounting**
  - Panel mount SPC-100A is designed for panel mount
  - VESA mount SPC-100A has reserved screw holes for VESA kit. SPC-100A w/ VESA kit can be VESA-mounted on all standard arms

#### Environment

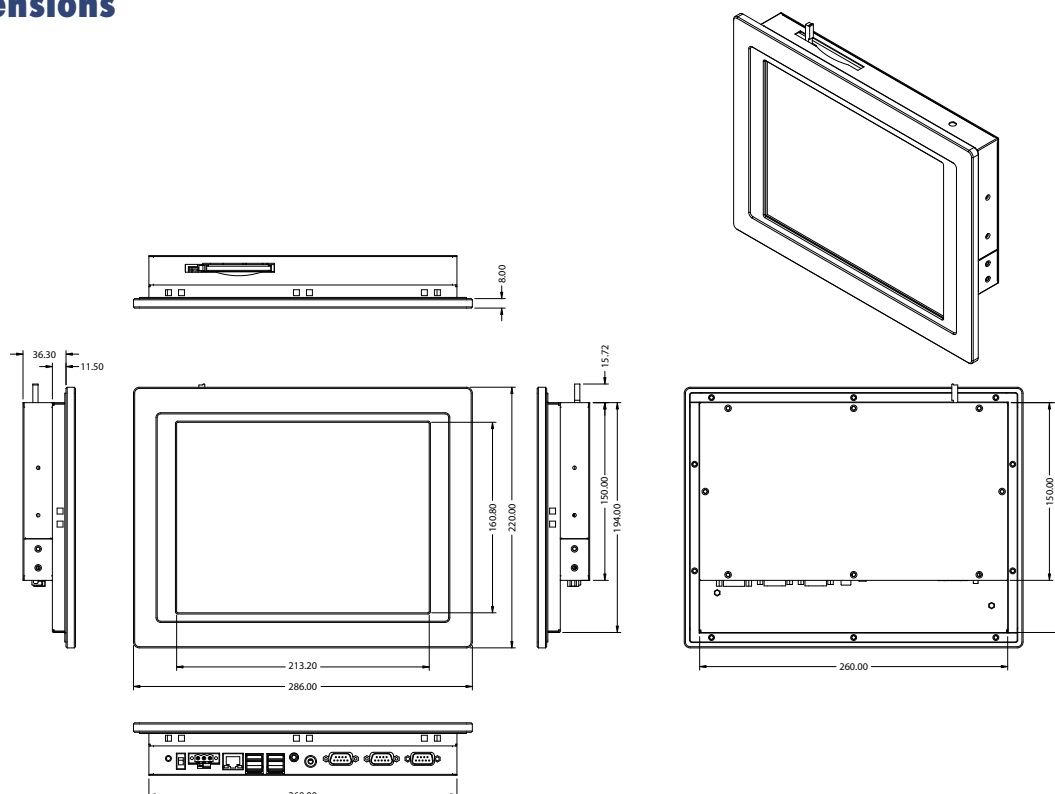
- **Operating Temp** 0 ~ 50° C
- **Storage Temp** -20 ~ 60° C
- **Water/Dust Resistance** IP65 front bezel
- **Certification** CE/FCC/UL

#### GUI firmware

- **Macromedia Flash Player support (project base)**
- **Java virtual machine support (project base)**

## Dimensions

Unit: mm



## Ordering Information

- **SPC-100A-545CE1** Intel XScale CPU IXP420 533 MHz CPU, Windows CE .NET 4.2 professional plus 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 (Doesn't include the power cord, customer must purchase power cord separately)
- **SPC-VESAKIT-100** SPC-100A VESA kit. SPC-100A has reserved screw kit. SPC-100A w/VESA kit can connect to standard VESA arm.

## Packing List

- SPC-100A
- Windows CE .NET end user license agreement (for Windows CE .NET version)
- CD-ROM
  - 1) Readme.txt
  - 2) User's manual
  - 3) Datasheet
  - 4) Upgrade utility
  - 5) Microsoft ActiveSync Version 3.7 installation files (Windows CE .NET)
  - 6) Windows CE .NET 4.2 platforms SDK (Windows CE .NET)
- Warranty Card
- 3-pin power connector