

# IPXA270-DK01 / DK02

KAMIO-2701A and KAMIO-2702A Evaluation Kits  
with Windows® CE 5.0 and Embedded Linux BSP



IPXA270-DK01



## Features

- Powered by a 520 MHz XScale® PXA270 RISC-based processor
- Low power, durable, fanless and diskless system designed to operate in a wide temperature range
- Standard peripheral device interface connectors include Ethernet ports, Serial ports, USB ports, CompactFlash™ memory, audio and touch input.
- Preinstalled standard Windows® CE 5.0 real-time operating system stored in and boots up from default 128 MB CompactFlash™ memory card.
- Rich Windows® CE 5.0 applications and services such as IE, Word, Excel, Power Point, PDF, picture viewer, WordPad editor, Media Player, FTP server, web server, telnet service, VNC server, DOS prompt, RDP thin client terminal service, and ActiveSync.
- Windows® CE 5.0 BSP for IPXA270-DK01 is provided for customizing the Windows® CE 5.0 OS image.
- Powerful SDK supports Microsoft® eMbedded Visual C++® and Microsoft® Visual Studio® .NET to provide a complete development environment for building Windows® CE 5.0 application software including Web services and Microsoft® .NET Compact Framework applications.
- IEI utilities and Remote Management Tools help configure and manage Windows® CE devices on a remote site.

## Specifications

Operating System	Windows® CE 5.0	GNU/Linux kernel v2.6.18
System	<ul style="list-style-type: none"> <li>• 520 MHz XScale® PXA270 processor</li> <li>• 128 MB SDRAM</li> <li>• Battery-backup RTC</li> <li>• Reset button</li> </ul>	<ul style="list-style-type: none"> <li>• 2 MB boot flash</li> <li>• 128 MB CompactFlash™</li> <li>• Watchdog Timer</li> </ul>
Display	<ul style="list-style-type: none"> <li>• Type : Color Active Matrix TFT</li> <li>• Resolution : 800 x 600, 16 bit color graphics</li> <li>• Input : 4-wired resistive touch panel</li> </ul>	<ul style="list-style-type: none"> <li>• Size : 10.4"</li> <li>• Brightness : 230 nits</li> </ul>
I/O and Communication	<ul style="list-style-type: none"> <li>• Ethernet : 2 x 10/100 Mbps</li> <li>• USB : 2 x USB Host 1.1</li> </ul>	<ul style="list-style-type: none"> <li>• Serial port : 1 x RS-232, 1 x RS232/422/485</li> <li>• Audio : 1 x Mic-in, 1 x Line-out</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Power requirement : AC 100-240V power input</li> <li>• Power consumption : 13W</li> </ul>	
Environmental	<ul style="list-style-type: none"> <li>• Operating Temperature : 0°C~50°C</li> <li>• Humidity : 5%-90%RH (no-condensing)</li> <li>• Vibration &amp; Shock : Follow MIL-STD-810F 514.5C-3</li> <li>1. Axes : 3 axes (Vertical / Transverse / Longitudinal)</li> <li>2. 10-500Hz, 60min/axis</li> <li>3. Equivalent to Z: 2.18Grms, X: 1.6Grms, Y: 1.96Grms</li> <li>• Front panel : IP 65 compliant</li> </ul>	



IPXA270-DK02



## Features

- Powered by a 520 MHz XScale® PXA270 RISC-based processor
- 10.4" SVGA TFT LCD with touch input
- Preinstalled IEI Embedded Linux, tailored specifically for the KAMIO-2702A
- GNU/Linux kernel v2.6.18 with GNU C library
- Embedded Linux drivers for onboard I/O, network, and peripherals, such as LCD display, CF card, SD/MMC Memory card, Stereo audio, Ethernet controller, Serial Port, RTC, USB, and touch controller.
- Secure Shell (OpenSSH) providing 128, 192 or 256-bit encryption.
- Complete source code of IEI Embedded Linux and BLOB bootloader.
- ARM-LINUX-GCC tool chain for desktop PC running Redhat Linux9.0.
- Example build of Qtopia window system
- Example build of Konqueror embedded web browser

1

Application  
Server  
Platform

2

Single  
Board  
Computer

3

IBX Series  
POS PC

4

AFOLUX  
POS  
Panel PC

5

Video  
Capture  
Card

6

KAMIO  
RISC

7

IOVU  
Open HMI

8

VITO  
Universal  
Controller

9

DINO  
BLADE

10

LCD  
Product  
Series

11

Embedded  
System

12

Industrial  
Computer  
Chassis

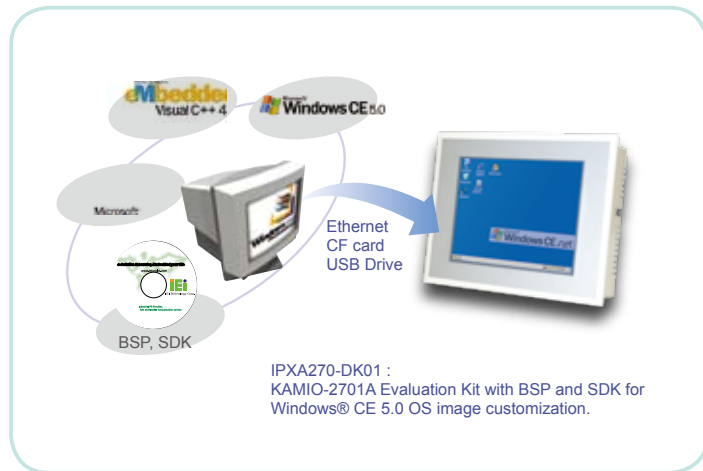
13

Power  
Supply

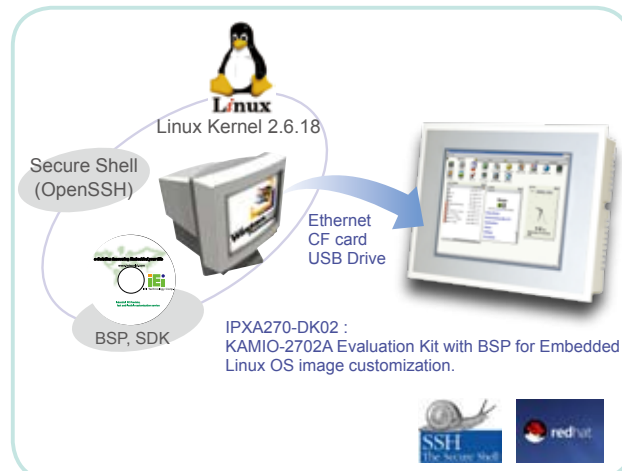
14

Peripherals

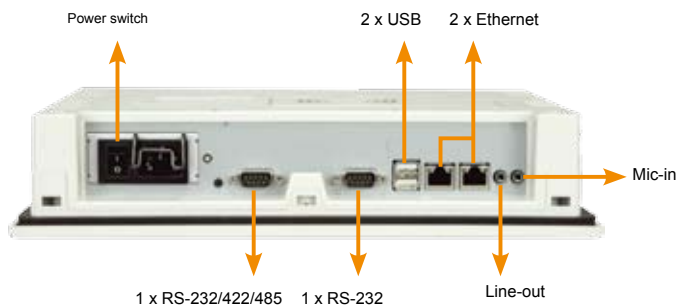
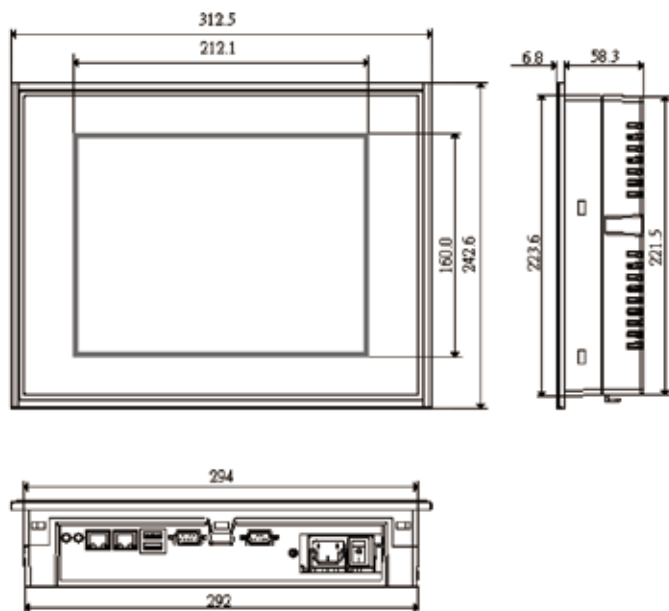
### IPXA270-DK01



### IPXA270-DK02



## Dimensions (Unit : mm) IPXA270-DK01 / DK02



## Ordering Information

Part No.	Description
IPXA270-DK01-R10	KAMIO-2701A Evaluation Kit with Windows® CE 5.0 BSP
IPXA270-DK02-R10	KAMIO-2702A Evaluation Kit with Embedded Linux BSP

## Packing List

IPXA270-DK01	1 x IPXA270-DK01 1 x Utility CD includes SDK, BSP, utilities, and technical documentations 1 x Power cable 1 x Null modem cable 1 x Touch pen 1 x Screw kit	IPXA270-DK02	1 x IPXA270-DK02 1 x Utility CD includes SDK, BSP, utilities, and technical documentations 1 x Power cable 1 x Null modem cable 1 x Touch pen 1 x Screw kit
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- 1 Application Server Platform
- 2 Single Board Computer
- 3 IBX Series POS PC
- 4 AFOLLUX POS Panel PC
- 5 Video Capture Card
- 6 KAMIO RISC
- 7 IOVU Open HMI
- 8 VITO Universal Controller
- 9 DINO BLADE
- 10 LCD Product Series
- 11 Embedded System
- 12 Industrial Computer Chassis
- 13 Power Supply
- 14 Peripherals