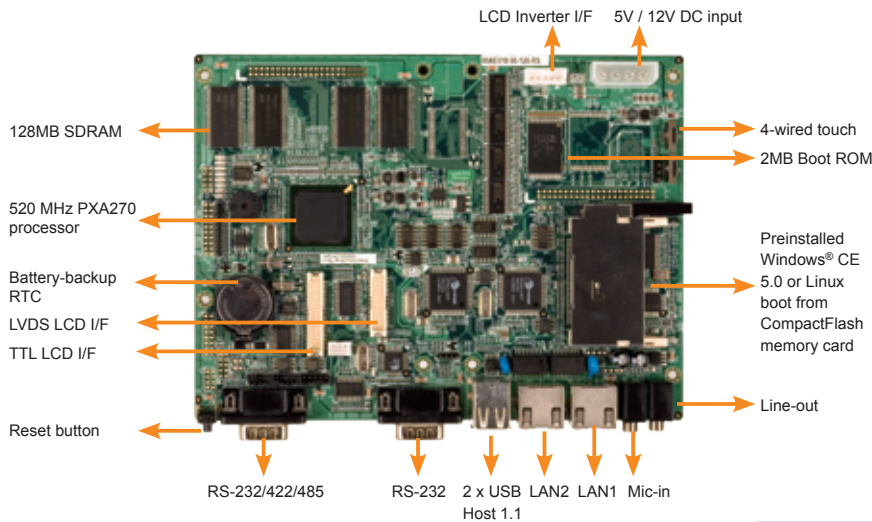


# KAMIO-2701/2702

RoHS Compliance XScale® PXA270  
Embedded SBC Board



KAMIO-2701 : With built-in Windows CE 5.0  
KAMIO-2702 : With built-in Linux



## Features

- Extremely durable in harsh environments.
- Operates in wide temperature range.
- Compact form factor.
- Low power consumption.
- No cooling fan required.
- Built-in LVDS and TTL TFT LCD interfaces and touch controller.
- Standard peripheral device interface connectors include Ethernet ports, Serial ports, USB ports, CompactFlash memory, and audio.
- Preinstalled Windows® CE 5.0 or Gnu/Linux with v2.6.18 kernel embedded operating system.
- Windows® CE 5.0 SDK (Software development Kit) or ARM-LINUX-GCC tool chain for user application software development.

## Specifications

### System

- XScale® PXA270 520MHz processor
- 2 MB boot flash
- 128 MB SDRAM
- 128 MB CompactFlash  
(38 MB reserved for Windows® CE 5.0 or Linux, and 90 MB for user data and programs)
- Battery-backup RTC
- Watch Dog Timer
- Reset button
- JTAG pin-header

### Display

- Dual LCD Interface: 18-bit single channel LVDS and TTL LCD panel interface
- Resolution: up to 800 x 600, 16 bit color graphics
- Input: 4-wired resistive touch interface

### I/O and Communication

- Ethernet : 2 x 10/100 Mbps
- Serial port : 1 x RS-232, 1 x RS-485  
2 x USB Host 1.1
- Audio : 1 x Mic-in, 1 x Line-out

### Power

- Power Supply Input : Molex 15-24-4547 5.08 mm (0.20") (equivalent) Disk Driver Power Connector
- Power Consumption : +5V @ 2.0A

### Environmental

- Operation Temperature : 0°C – 65°C
- Humidity : 5% to 95% (non-condensing)

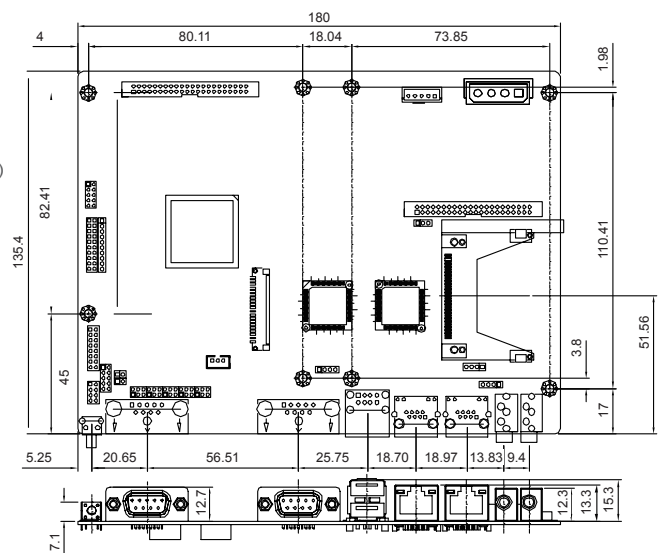
## Ordering Information

Part No.	Description
KAMIO-2701-R12	XScale® PXA270 RISC-based Embedded SBC with 128Mbyte CompactFlash memory card and built-in Windows® CE 5.0 OS.
KAMIO-2702-R12	XScale® PXA270 RISC-based Embedded SBC with 128Mbyte CompactFlash memory card and built-in 2.6.18 Linux kernel

## Evaluation Kits

The KAMIO series also offers two ready-to-run rapid evaluation kits, the IPXA270-DK01/DK02. Both evaluation kits feature all the hardware needed for immediate startup, subsequent development, and evaluation for OEM/ODM services. These evaluation kits provide SDK and Windows® CE 5.0 BSP or Embedded Linux BSP for customers to develop application software and to customize their own embedded OS image. IEI welcomes OEM/ODM of KAMIO solutions and recommends our customers use IPXA270-DK01/ DK02 to evaluate our KAMIO solutions.

## Dimensions (Unit : mm)



## Packing List

KAMIO-2701/2702	1 x KAMIO-2701 SBC board 1 x Hardware user manual 1 x Utility CD including utilities, SDK, and user manual
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