KAMIO-2701A / 2702A

RISC-Based Solution
KAMIO RISC

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
- CPU: 520 MHz XScale® PXA270
- Boot ROM: 2 MB boot flash
- RAM: 128 MB SDRAM
- Storage Space: 128 MB CompactFlash™ memory card
- Battery backup RTC
- Watchdog 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
- Touch screen: 4-wired resistive touch interface
- I/O and Communication
  - Ethernet: 2 x 10/100 Mbps
  - Serial Port: 1 x RS-232, 1 x 4-wired RS-232 or 422/485
  - USB Host: 2 x USB Host 1.1
  - Audio: 1 x Mic-in, 1 x Line-out

Power
- Power Supply Input: 5 V and 12 V (for LCD backlight only); DC input
- Power Consumption: 12 V @ 0.15A

Environmental
- Operating Temperature: -20°C~70°C
- Humidity: 5%-90% (non-condensing)

Evaluation Kits
The KAMIO series also offer 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. ICPA welcomes OEM/ODM of KAMIO solutions and recommends our customers use IPXA270-DK01/DK02 to evaluate our KAMIO solutions.

Dimensions (Unit: mm)

Packaging List

Part No. Description
KAMIO-2701A-R10 XScale® PXA270 wide-temperature RISC-based Embedded SBC with 128 MB CompactFlash™ memory card and built-in Windows® CE5.0 OS
KAMIO-2702A-R10 XScale® PXA270 wide-temperature RISC-based Embedded SBC with 128 MB CompactFlash™ memory card and built-in Linux kernel 2.6.18

Options
- KAMIO-2701A-BSP Windows® CE5.0 BSP for KAMIO-2701A
- KAMIO-2702A-BSP Linux Kernel 2.6.18 BSP for KAMIO-2702A

Ordering Information

Part No. Description
KAMIO-2701A-R10 XScale® PXA270 wide-temperature RISC-based Embedded SBC with 128 MB CompactFlash™ memory card and built-in Windows® CE5.0 OS
KAMIO-2702A-R10 XScale® PXA270 wide-temperature RISC-based Embedded SBC with 128 MB CompactFlash™ memory card and built-in Linux kernel 2.6.18