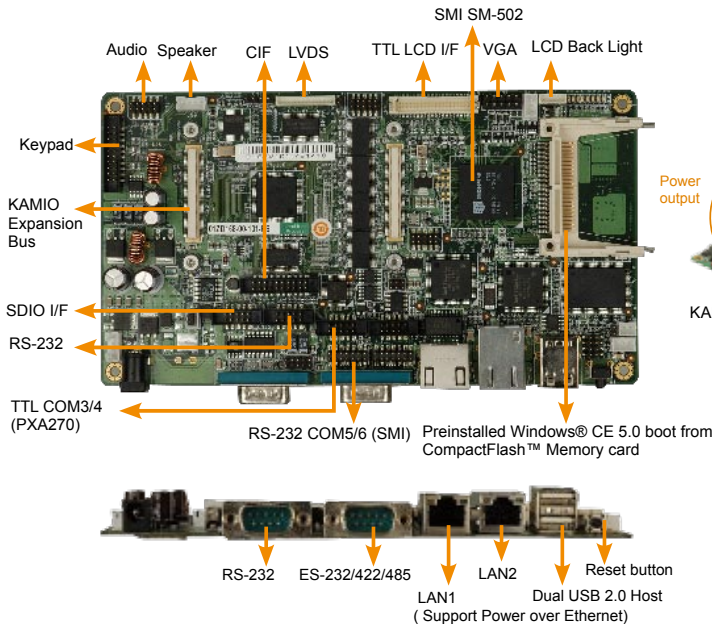


# KAMIO-CB04 / CB05

Cost-effective COTS (Commercial off-the-shelf) carry board for KAMIO-CM series Computer-on-Module support Dual-Display or multimedia function and both support POE (Power over Ethernet) function

Wide Temperature  
-20°C~70°C

KAMIO-CB04



Power over Ethernet

Model Name	KAMIO-CB04	KAMIO-CB05
CPU Board	KAMIO-CM01A	KAMIO-CM51
CPU	520 MHz XScale® PXA270	500 MHz Alchemy AU1250
Display	SXGA	XGA
Operating Temperature	-20°C~70°C	0°C~70°C
VGA Port	One pin header for VGA port to support dual display	N/A
Multimedia Support	MPEG 1	MPEG 1/2/4, WMV9

## Features

- Extremely durable in harsh environments.
- Operates in a wide-temperature range.
- Low power consumption and No cooling fan required.
- One LAN supports POE (Power over Ethernet) function
- Standard peripheral device interface connectors include Ethernet, Serial, USB ports, CompactFlash™ memory and audio.
- Preinstall Windows® CE 5.0 or GNU/Linux v2.6.18 kernel embedded OS.
- Windows® CE 5.0 SDK or ARM-LINUX-GCC tool chain for user application software development

## Specifications

### System

- Battery backup RTC
- Watchdog Timer
- Reset Button
- JTAG pin-header

### Display

- Dual LCD Interface: 18-bit LVDS and TTL LCD panel interface
- Display Controller: SMI SM-502 8 MB graphic memory (KAMIO-CB04 only)
- Extension VGA: CRT DSUB-15Pin (KAMIO-CB04 only)
- Resolution: Up to 1280 x 1024 and support dual display (KAMIO-CB04) or 1024 x 768 (KAMIO-CB05)
- Video: Support MPEG 1, MPEG 2, MPEG 4, and WMV9 (KAMIO-CB05)
- Touch Screen: 4-wired resistive touch interface

### Communication Bus

KAMIO Expansion Bus (KEB) : Rev 1.0 support to carry CPU module

### I/O Interfaces

- 2 x 10/100 Mbps Ethernet (one supports POE function)
- 1 x RS-232 serial port
- 1 x RS-232/422/485 serial port
- 2 x USB Host 2.0
- 1 x 2 W built-in speaker
- 2 x reserved TTL UART interface for KAMIO-GPS01, KAMIO-BT01 or IRFR-100 Module (XScale® PXA270)
- 1 x reserved TTL UART interface for KAMIO-GPS01, KAMIO-BT01 or IRFR-100 Module (Alchemy™ AU1250)

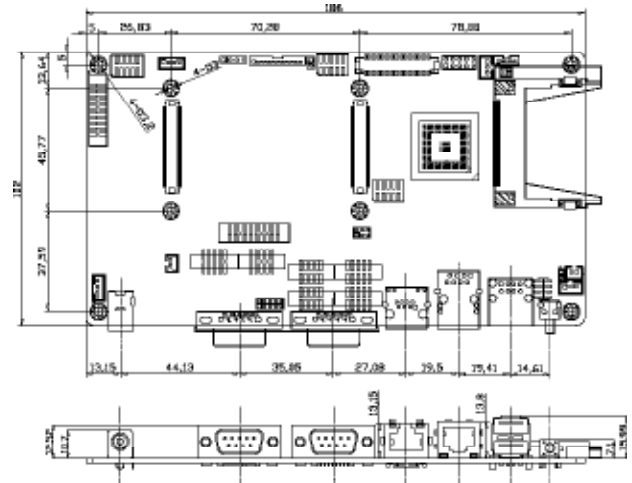
### Power

- Power Supply Input: 9 V - 36 V DC-IN and POE (Power Over Ethernet 802.3 af)
- Power Consumption: 12 V @ 0.4 A (KAMIO-CB04) or 12 V @ 0.5 A (KAMIO-CB05)

### Environmental

- Operating Temperature: -20°C~70°C (KAMIO-CB04) or 0°C~70°C (KAMIO-CB05)
- Humidity: 5%-90%RH (no-condensing)

## Dimensions (Unit : mm)



## Packing List

KAMIO-CB04	1 x KAMIO-CB04 / CB05 carry board
KAMIO-CB05	1 x Utility CD includes utilities, SDK, and user manual
	1 x 128MB CompactFlash™ card with built-in Windows® CE5.0
	1 x Extension VGA cable (KAMIO-CB04 only)

## Ordering Information

Part No.	Description
KAMIO-CB04-01A-R10	IEI wide-temperature carry board for KAMIO-CM01A Computer-on-Module with 128 MB CF memory card and Windows® CE5.0 license
KAMIO-CB05-51-R10	IEI standard carry board for KAMIO-CM51 Computer-on-Module with 128 MB CF memory card and Windows® CE5.0 license

## Options

KAMIO-CB04-01A-BSP	Windows® CE5.0 BSP for KAMIO-CM01A Computer-on-Module and KAMIO-CB04 backplane
KAMIO-CB05-51-BSP	Windows® CE5.0 BSP for KAMIO-CM51 Computer-on-Module and KAMIO-CB05 backplane
KAMIO-POE01-R10	compliant Power over Ethernet (PoE) 802.3af module for KAMIO-CB04 / CB05