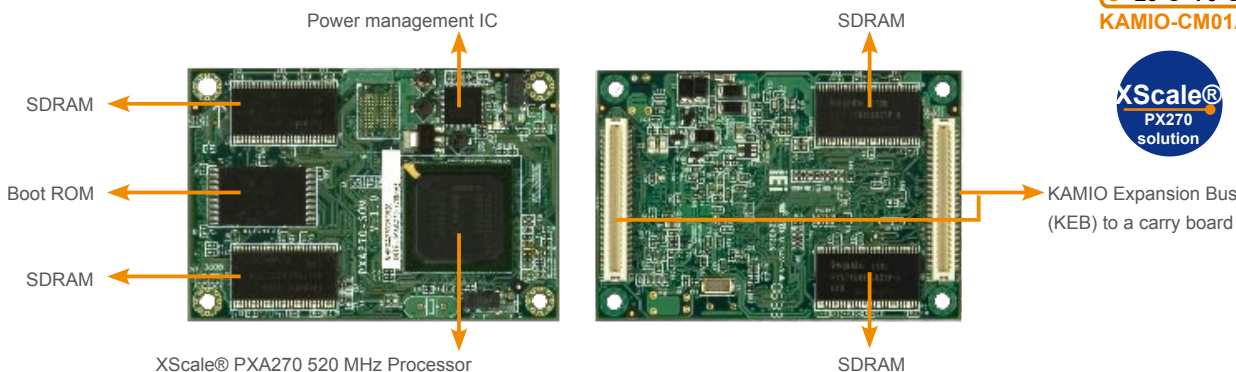


KAMIO-CM01A

MARVELL® XScale® PXA270 RISC-based Computer-on-Module board with I/O extension interfaces to a standard or OEM/ODM carry board

Wide Temperature
-20°C~70°C
KAMIO-CM01A

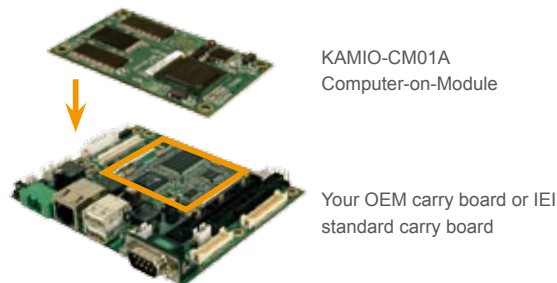


Features

- Full-featured Computer-on-Module
- 520 MHz XScale® PXA270 processor with 32 KB + 32 KB cache
- Preinstalled Windows® CE 5.0 embedded OS
- Support three internal memory and boot up options
 Default: 2 MB boot ROM for boot loader and 128 MB CF card in carry board for embedded OS and user programs/data.
 OEM options: 32 MB or 64 MB Strata NOR Flash (boot loader + OS) or, 2 MB boot ROM for boot loader and 64 MB/128MB M-System G3 DOC (Disk on chip) for embedded OS and user programs/data.
- Embedded power management IC requires only a single power supply and all additional voltages are generated on board.
- I/O expansion connects to a carry board with I/O functions and connectors.

Applications

- Small form factor Computer-on-Module design to stand on an OEM carry board for adaptation to various applications.
- KAMIO Expansion Bus (KEB) for a carry board to provide diversified I/O functions, such as Ethernet, Wireless LAN, Full 2.0B CAN, USB host/client, Serial Ports, audio, LCD display, storage media, digital I/O, and additional expansion devices.
- Several IEC standard COTS (commercial off-the-shelf) carry boards are provided for fast system integration and application device development.
- Embedded Linux is provided based on OEM service.

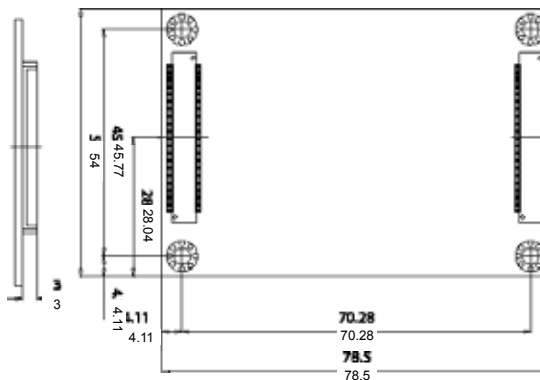


Specifications

- CPU: 520 MHz XScale® PXA270
- Boot ROM: 2 MB boot flash
- RAM: 128 MB SDRAM
- Power IC TI TPS65020
- Power Requirement: 0.5 A @ 5 V (max.)
- Operating Temperature: -20°C~70°C
- KAMIO Expansion Bus (KEB) Rev1.1: Two 120-pin female Acers 88078-120 (100V/0.5A, Pitch = 0.5mm) connector with a total of 240 pins to connect with two male connectors on a carry board.

I/F Type	Descriptions	# Pins
Common Basic I/O Interface	I/O bus, PCMCIA, USB, LCD, AC'97 and UART	160
CPU-dependent I/O Interface	Camera, SD and MMC	40
Power Interface	3.6 V ~ 6V DC input and Power Control	32
Reserved	FFU	8
Total:		240

Dimensions (Unit : mm)



Ordering Information

Part No.	Description
KAMIO-CM01A-R10	IEI 520 MHz wide-temperature XScale® Computer-on-Module board

Packing List

KAMIO-CM01A	1 x KAMIO-CM01A Computer-on-Module board 1 x User manual
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