

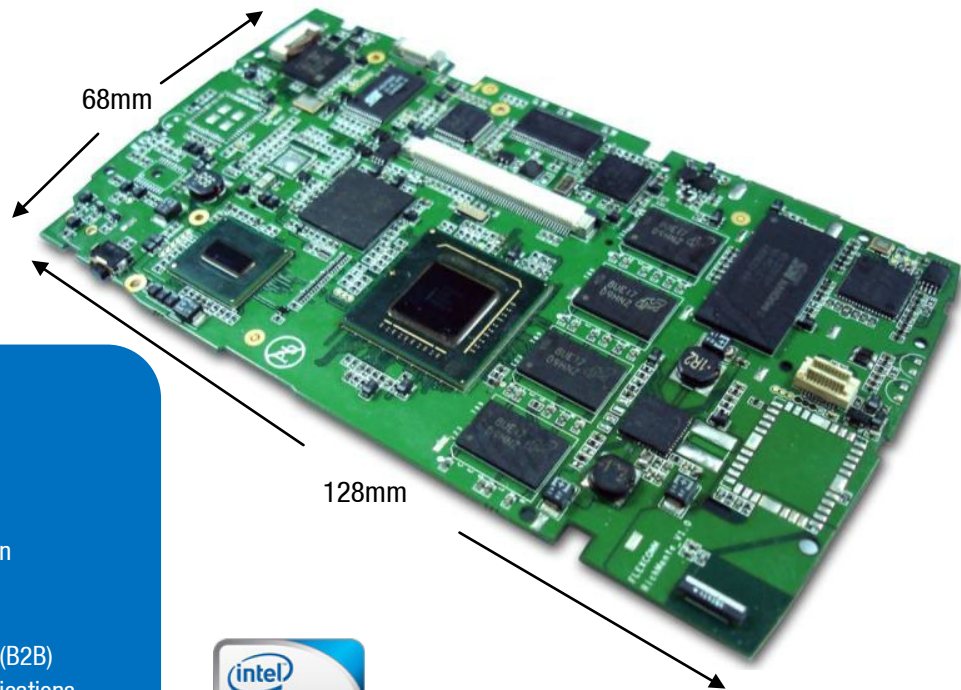
RichMonte Platform

Versatile High Density Interconnect Core board

Product

Highlight

- Intel® Atom™ processor Z510/Z530
- Ultra Low Voltage (TDP < 500 mW), Fanless Design
- Small Form Factor (68mm X 128mm)
- High-Density-Interconnect (HDI) core board
- Extended I/O Connectivity through Board to Board (B2B)
- Flexibility to customize for various embedded applications



Targeted Embedded Applications

- Mobile Internet Device (MID)
- In-Vehicle Infotainment (IVI) System
- Digital Surveillance System (DSS)
- Digital Signage
- Portable Point of Sale (POS)
- Video Conferencing System

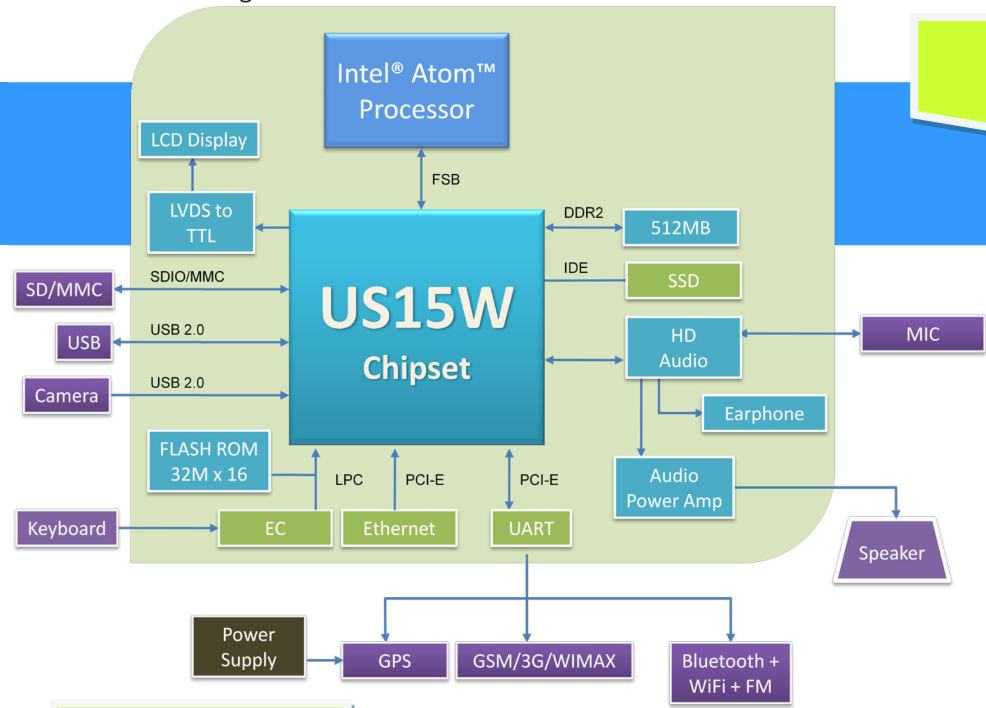
Product

Overview

RichMonte platform is a versatile High Density Interconnect (HDI) core board designed to have high flexibility, mobility, and functionality. It is a compact, highly integrated board based on Intel® Atom™ processor Z510/Z530 featuring ultra low power solution. RichMonte platform extends the benefit of Intel Architecture scalability to small form factor and fanless designs for thermally constrained application, such as Mobile Internet Devices (MID), Portable Point of Sale (POS), Digital Surveillance System, In-Vehicle Infotainment System, Digital Signage and Video Conferencing System.

RichMonte platform allows extending I/O connections through board to board (B2B) for extra connectivity and capability. The extended board can be specially customized to meet variety of embedded applications depending on end customers' requirements. For instance, enable SDVO for display option or additional USB connections for external peripherals.

Other than above mentioned applications, Richmonte platform with or without the extended board is ideal for multiple market segments and it is now ready to support GSM/3G/WIMAX technology.



Block

Diagram

Hardware

Features

Features	Description	
Processor System	CPU	Intel® Atom™ Processor Z510/Z530
	Clock Speed	1.1GHz / 1.6GHz
	FSB	400MHz / 533 MHz
	System Chipset	Intel® System Controller Hub (SCH) US15W
	L1 Cache	32KB L1 instruction cache, 24KB L1 data cache
	L2 Cache	512KB
	EC	Renesas® H8S/2117
Memory	Type	DDR2 400/533 MHz
	Capacity	512MB / 1024MB on board
Display	Graphics	Intel® SCH US15W
	LCD	4.3" - 12.1" with Touch Panel
	Graphics Engine	- Intel® Graphics Media Accelerator 500 (Intel® GMA 500) - Ultra low power integrated graphics with 2D and 3D HW accelerator - Integrated High Definition Video decoder - Support MPEG2, MPEG4, H.264 WMV9/VC1 hardware decoder - Support DirectX 9.0Ex and OpenGL 2.0
	Interface	VGA / RGB Up to 1280 x 1024
Wireless	WiFi	IEEE 802.11n backward compatible with IEEE 802.11a/b/g
	GSM (3G)	850/1900/900/1800Mhz/WCDMA/HSDPA
	WWAN	IEEE 802.16e WIMAX (optional)
	GPS	SIRF Star III GPS (optional)
	Bluetooth	Bluetooth 2.0 with EDR
LAN	Ethernet	10/100Mbps FE LAN port RJ45 (optional)
I/O	HDI core Board	1 x USB Host 2.0 1 x USB Device 2.0 1 x Mini SD slot 2 x Extension Board connector
	Extension Board	1 x PCI-E 1 x SDVO 1 x Keyboard 2 x USB 2.0
Peripheral	Storage	SATA Hard Disk through USB connection (optional) 4GB / 8GB SSD (optional)
Camera	Resolution	2.0 Mega pixel
Power	DC	3.3V - 4.2V MAX 3A
Battery		Lithium Ion 2200 mAh
Core Board	Dimensions	68mm x 128mm

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Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

