



SPEC SHEET

SYNCUSTECH

EMB - BYT1000

Intel® Atom Baytrail-I Processor

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EMB-BYT1000 is based on a Bay Trail Intel® Atom™ processor, which replaces the low-performing attributes of the 1st-generation Atom processors and substitutes discontinued components, such as Intel® Atom™ N270. The processor features low power consumption, high level of heat control, and all-in-one performance. The technology enables the board to be utilized for a wide range of industry applications, including smartphones and tablets.

EMB-BYT1000 is perfectly compatible with the form factor and I/O elements of the existing product, EMB-N270B. For current users of EMB-N270B, EMB-BYT1000 exclusively offers an upgraded platform with all the features mentioned above.



Features

- Intel® Atom Processor E3845/E3826/3815
- 1 x DDR3L SO-DIMM supports up to 8GB
- 6 x USB 2.0, 1 x USB 3.0
- 5 x RS232, 1 x RS422/485
- Display : LVDS, HDMI, VGA
- 1 x mPCIe / mSATA selectable
- 2 x GbE LAN

Module	Function	Descriptions
Processor System	CPU	Intel® Atom™ Process E3800 Product Family Intel® 64, Intel® VT, XD Bit, improved power management
	Core Number	Up to 4
	L3 Cache	2MB
	Chipset	N/A
	BIOS	UEFI
Memory	Technology	DDR3L-1333 MHz
	Max. Capacity	8GB
	Socket	1 x 240-pin SO-DIMM



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Module	Function		Descriptions
Graphics	Controller		Intel® Gen7 w/ 4EUs Intel Graphics DX 11*, OGL3.2
	VGA/HDMI/LVDS		Dual channel 24-bit, max resolution 1920 x 1200
	Graphics Engine		Support DX10.1, OpenGL3.0, Full MPEG2, VC1, AVC Decode
Ethernet	Interface		PCI-e 10/100/1000 Mbps ethernet
	Controller		GbE LAN: Realtek RTL8111F-CG
	Connector		2 x RJ45
Audio	HD Codec		Realtek ALC262 HD Audio codec
SATA II	Data Transfer Rate		SATA II 3Gb/s
Expansion	Selectable	mini PCI-e	1 x (Half Size) + 1 x (Full Size) shared with mSATA
		mSATA	1 x (Full Size) shared with SATA2
Rear I/O	Serial		3 x RS232
	VGA		1 x 15P VGA
	HDMI		1 x 19P Type A
	Ethernet		2 x RJ45
	USB		1 x 1 USB 3.0 ports, 2 x 2 USB2.0 ports.
Internal connector	Serial		2 x RS232 Header, 1 x RS422/485 Header
	Audio		1 x Audio Line-out
	USB		2 x USB 2.0/1.1 Header
	SATA		2 x SATA II
	DIO		1 x 8-bit GPIO Header
	LVDS		1 x 40P Header
	Front Audio		1 x 10P Header
	SATA POWER		1 x 2P Connector
	TPM		1 x 20P Header
	Keyboard/Mouse (PS/2)		1 x 7P Header
	FAN		2 x 3P System Fan connector
Power Requirement	Input POWER		12V DC-In using 4-pin ATX PWR Connector
Environment	Operating Temperature		-20°C ~ 70°C
	Operating Humidity		10% ~95%, non-condensing
Physical	Dimensions		EPIC SBC [115mm x 165mm, thickness 1.6mm]





This motherboard has been developed as a reference product and can be customized to your needs.

To ask for a customized solution, please contact our team at:

KOREA H.Q.

☎ (031) 443 8493

✉ syncustech@syncus.co.kr

U.S.A Office

☎ (877) 882 1033

✉ contact@syncustech.com

