



SPEC SHEET

SYNCUSTECH

EMB - D2550

Intel® Atom™ D2550 High Value Industrial Mini-ITX Motherboard

EMB - D2550

EMB-D2550 is a high performing fanless-type ODM motherboard, capable of supporting multiple numbers of small-sized I/O (USB, serial) in Mini ITX. This board is applicable and customizable for POS, vision equipment, digital signage products, DVR, and industrial automation products.

Features

- Intel® Atom™ D2550 1.86GHz Fanless Mini-ITX Main Board
- DDR3 memory supports up to 4 GB
- VGA display, LVDS 24bit 2ch, HDMI Connector (optional)
- Mini PCIe expansion with M-SATA SSD storage
- Internal SD connector, Parallel pin header
- 1 x Expansion PCI, 1 x PCIe(x1) (for riser Card)
- Supports up to 2 x GbE, 6 x USB 2.0 and 5 x COMs ports
- DC 12V Power Adaptor
- Supports Windows 7, XP, Linux

Module	Function		Descriptions
Main	Processor	CPU	Intel Atom 1.6GHz/1.86/2.13GHz, L2 Cache – 512KB 8-Way
	Main Chipset	PCH	Intel NM10 (Tiger Point)
	Memory	Main Memory	2 x DDR3 SODIMM Socket upto 2GB(N2600)/4GB(N2800,D2550)
	I/O Chipset	Super I/O	W83627HF
		Multi I/O	FD81261D
	OS	OS	WinXP, Window7, Linux
Storage	BIOS	Boot device	AMI UEFI BIOS - 16Mbit SPI
	HDD	Storage	2 x SATA Port - GEN2, Upto 3Gb/s
			2.5", 3.5" SATA HDD (Factory Option) 1 x SATA1 Port : alternated a mSATA SSD on miniPCIe Connector

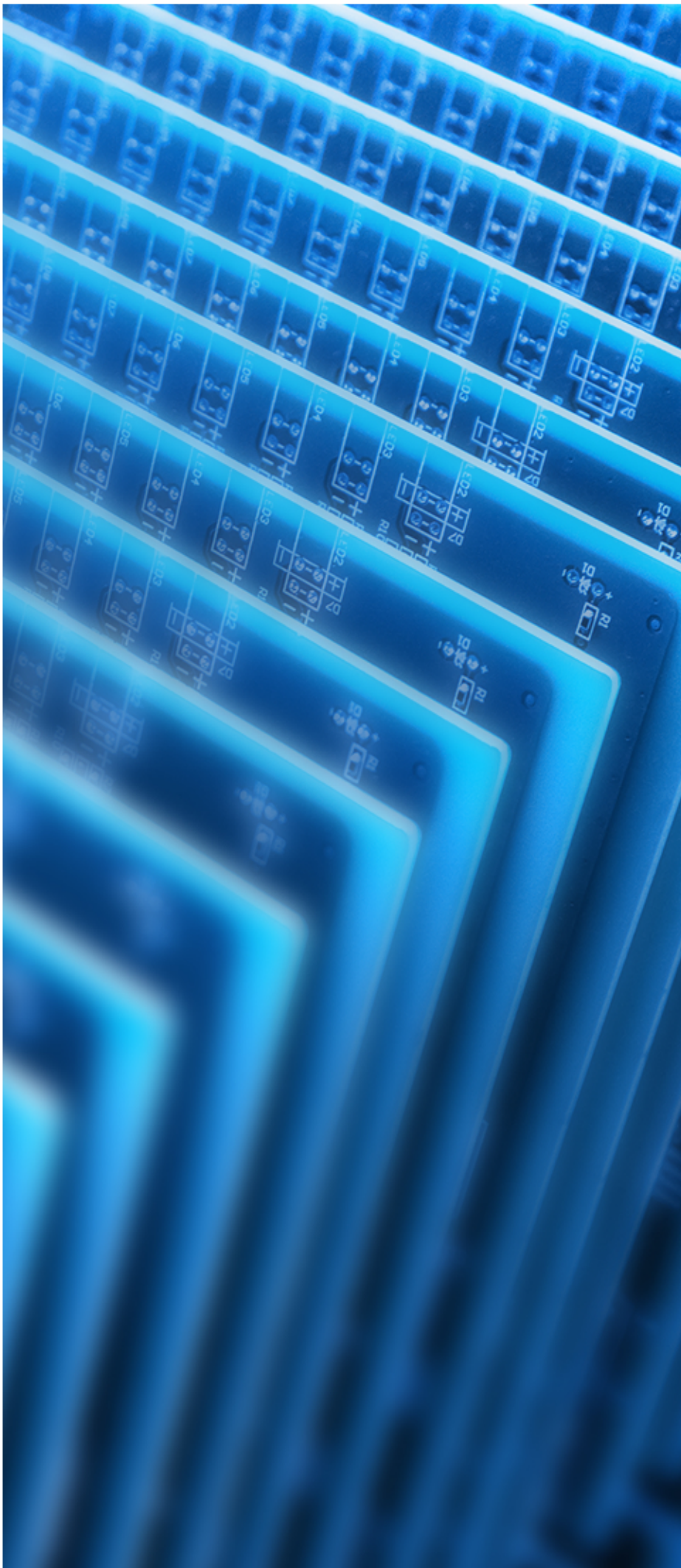


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Module	Function		Descriptions
I/O Port	Rear Panel I/O	VGA	1 x VGA Connector
		LAN & USB	4 x Host USB + 2x RJ-45
		SERIAL (RS-232)	2 x 9P D-SUB Connector – COM1 with Power Select Pin (5V/12V)
		Keyboard	1 x PS/2 Keyboard
		Mouse	1 x PS/2 Mouse
		Audio	1 x Line-Out/Mic
	Internal I/O	LVDS	1 x 40P Connector, Support to LVDS SPWG Format and Dual Channel (Factory Option)
		-	-
		USB	1 x 10P Header (2 x USB)
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		Audio (Front)	1 x 10P Header, HP-OUT, 1 x Mic (Factory Option)
		(Rear)	1 x 10P Header, Lineout (SPKOUT)/Mic
		SERIAL	2 x 10P Header with Power Select Pin (5V/12V) 1 x 10P Header (1 x RS-422/485)
		Parallel	1 x 26P BOX Header (1 x Parallel)
		GPIO	1 x 10P Header, 4 x DI/DO, Supports Embedded Software APIs or Source Code
Expansion Slots	Internal Slot	PCI	1 x 32Bit PCI Slot
		MiniPCle	(Factory Option) 1 x MiniPCIE Connector (For mSATA Module – Alternatively used a CN8)
		PCIe	(Factory Option) 1 x PCIe Slot
Watchdog Timer	WDT	Output Interval	System Reset Programmable 1 ~ 255 sec/min, Supports Embedded Software APIs
Environment	Condition	Operating Temperature	0~60°C (Operational humidity: 40° C @ 95% RH Non-Condensing)
		Storage Temperature	-40°C~85°C and 60°C @ 95% RH Non-Condensing
Power	DC Power	DC 12V - Single	1 x ATX 4P
Form Factor	Size (LxWxH)	PCB F/F	Mini ITX , 170mm x 170mm – 1.6t





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

