INDUSTRIAL MOTHERBOARD
DATASHEET

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J3455T-IM-A

Thin mini ITX, Intel® J3455 SoC onboard Processors, 2*SO-DIMM.
1*PCIe x1, HDMI, VGA, LVDS, Dual LAN, M.2 slot



Features

- Two SO-DIMM up to 8GB DDR3L 1866 MHz.
- Supports 3 display configuration by multiple interface: VGA/HDMI/DP/LVDS/eDP(optional)
- 7-year longevity supply
- Wide Temperature Range: 0~60°C

Specifications

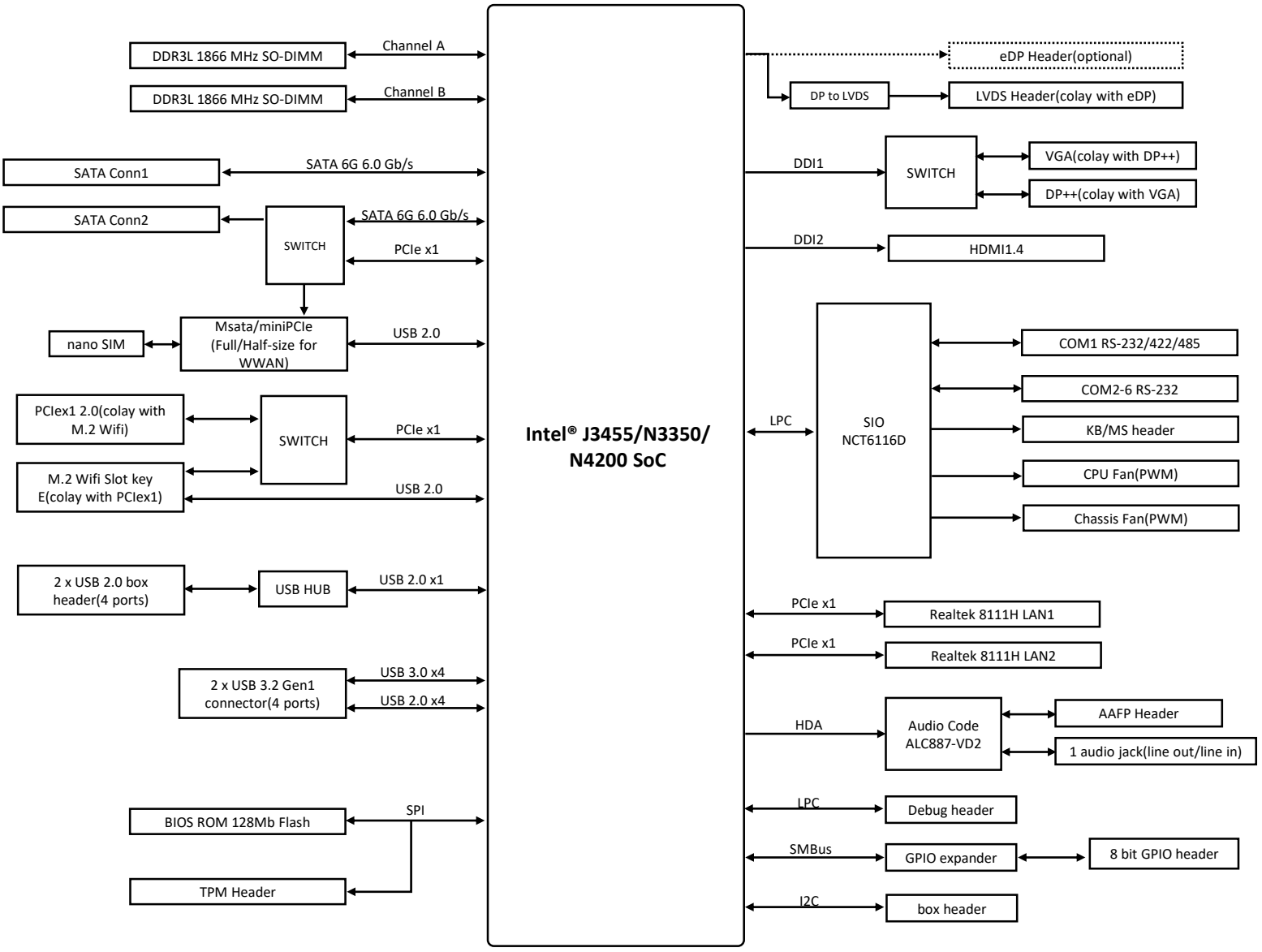
Processor System	CPU	Build in Intel®J3455 SoC onboard Processors
Memory	Technology	DDR3L 1866 MHz Non-ECC, Un-buffered Memory
	Max.	8GB
	Socket	2 x SO-DIMM
Display	VGA	1, Supports up to 1900 X 1200 @ 60 Hz(colay with DP++)
	HDMI	1, Supports up to 3840 X 2160 @ 30Hz
	Display Port++	1, Supports up to 4096 x2160 @ 60Hz(colay with VGA)
	LVDS	1, Supports up to 1920 x1200 @ 60Hz(colay with eDP)
	Embedded Display Port	1, Supports up to 4096 x2160 @ 60Hz(colay with LVDS, optional)
	Triple Display	VGA+HDMI+LVDS, VGA+HDMI+eDP, DP+HDMI+LVDS, DP+HDMI+eDP
Expansion Slot	PCIe	1 x PCIe 2.0 x1 (colay with M.2 E key)
	Mini-PCIe	1 x Full/Half-size PCIe mini card slot(w/ SIM holder)
	M.2	1 x M.2 Socket 1 with E key, type 2230 for WIFI/BT device(colay with PCIe)
Ethernet	Speed	10/100/1000Mbps
	Controller	2 x Realtek® 8111H, supports WOL/PXE
	Connector	2 x RJ-45
Audio	Codec	Realtek® ALC887
	Connector	Line-Out, line-In
Storage	SATA port	2 x SATA Gen 3.0, up to 6Gb/s
	mSATA	1 x Full/Half-size mSATA slot(shared with Mini PCIe)
Rear I/O	VGA	1
	HDMI	1
	Display Port++	1
	USB3.2 Gen1	4
	Ethernet	2
	Audio jack	1(Default Line-out, switch to line-in by BIOS)
	DC IN	1
Internal Connector	Serial Header	6 (5 x RS232, 1 x RS232/422/485)
	USB 2.0	2 x Header support additional 4 x USB2.0 connectors
	8-bit GPIO Header	1
	KB/MS Header	1
	CPU Fan Connector	1 (PWM Mode)
	Chassis Fan Header	1 (PWM Mode)
	SATA Power Connector	1
	SATA Gen 3.0 Connector	2
	Front Panel Audio Header (AAFP)	1
	System Panel Header	1
	Speaker Header	1
	AT/ATX select header	1
	ATX Power supply(5VSB) Connector	1
	Chassis intrusion header	1
	Clear CMOS Jumper	1
	I2C Header	1
	LVDS Connector	1
	eDP Connector	1(optional)
	LPC Debug header	1
	Display Panel Backlight Power Selector	1
	Flat Panel Display Brightness Connector	1
	Display Panel VCC Power Selector	1
	LCD panel monitor switch header	1
	Power Connector	1 X 4-pin ATX Power Connector

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Specifications

Watchdog Timer	H/W	YES
Security	TPM	1 x SPI TPM header
Power	Power Type	AT/ATX mode and DC in
	Voltage	DC in 12V
Operating System	Microsoft Windows	Windows® 10 (64bit) / Win10 IoT Enterprise
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
Environment	Operating Temperature	0~60° C
	Non-Operating Temperature	-40~85° C
	Relative Humidity	0%~85%
Dimension	Form Factor	Thin Mini-ITX, 170 x 170 mm
Certification	Safety	CE, FCC

Block Diagram



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Order Information

Model name	Part number	Description
J3455T-IM-A	90ME0270*	BGA1296,J3455,USB3.2 G1,HDMI,VGA,MB

* The part number might vary for different regulations and package. Please consult the TPM in your region for exact 90PN.

Packing List

Part number	Description	Quantity
13020*	IO shield	2
14013*	SATA 6G CABLE	1
14001*	SATA power CABLE	1
13020*	M.2 screw pack	2

* The part number might vary due to part number revision.

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