

N5105I-IM-A R2.0

Mini-ITX, N5105 SoC, 2*SO-DIMM, VGA, HDMI, LVDS, 6*COM, 8*USB, POS market dedicated

Features

- Fan-less mini-ITX Industrial MB with Intel Celeron® N5105 processor
- Supports 3 displays configuration by multiple interface: HDMI/ VGA /LVDS(colay with eDP)
- Advanced I/O and connectivity features for POS market
- Wide temperature range endurance: 0–60°C



Specifications

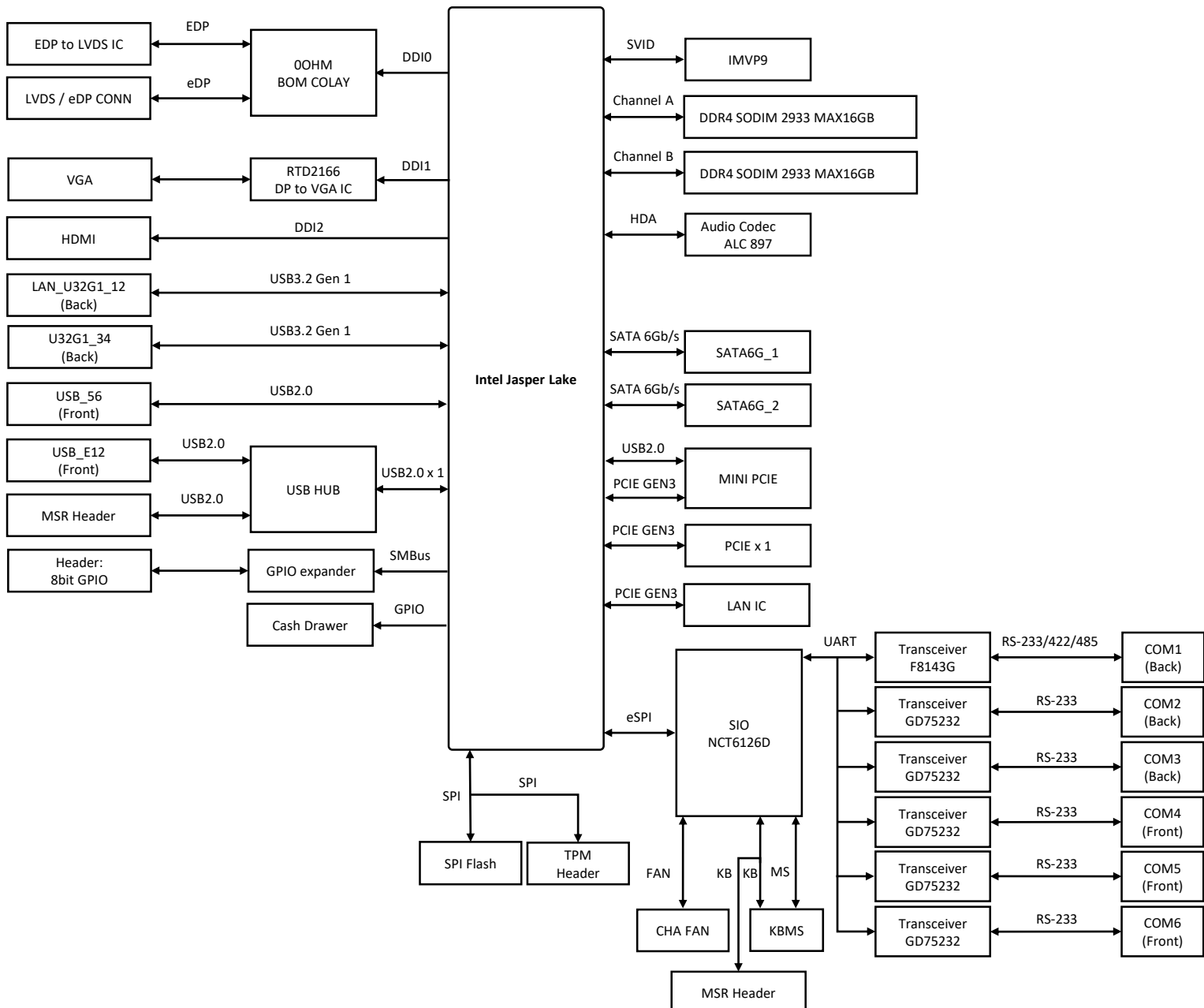
Processor System	CPU	Intel® Celeron® Quad-Core N5105 SoC onboard Processors (Jasper Lake)
	Chipset	Integrated
Memory	Technology	DDR4 2933/2666/2400/2133 MHz
	Max.	32 GB
	Socket	2 x SO-DIMM
Display	HDMI	1, Supports HDMI 1.4b up to 4096 X 2160 @24 Hz
	VGA	1, Supports up to 1920 X 1200 @ 60 Hz
	LVDS (Colay with eDP)	1, Supports 40 bits up to 1.4b 1920 x1200 @ 60Hz (Optional BOM colay with eDP)
Expansion Slot	PCIe 3.0/2.0 x1	1
	Mini PCIe	1 x mini PCIe (support PCIe1/USB2.0 mode) (w/ SIM holder)
Ethernet	Speed	10/100/1000 Mbps
	Controller	1 x Realtek RTL8111H (Support WOL/PXE)
	Connector	1 x RJ-45
Audio	Codec	Realtek ALC897 High Definition Audio
	Connector	Line-Out, Line-In
Storage	SATA port	2 x SATA Gen 3.0, Up to 6Gb/s
	SATA Power connectors	2
Rear I/O	VGA	1
	HDMI	1
	USB3.2 Gen1	4
	Ethernet	1 x RJ45
	RJ11	1 x RJ11 (For cash drawer 12V/24V, optional)
	Serial Port	3 (1*RS232/422/485, 2*RS232 5/12/Ring, switched by BIOS)
	Audio jack(s)	2
	DC-12V Power Input	1 (4-pin, Lockable DC Jack 4P connector)
Internal Connector	Serial Port	3 (RS232: Ring/5V/12V Select, switched by jumper) Please keep your device around +/-12V
	USB2.0	2 x Header Support Additional 4 x USB2.0 Ports (stand by power, MOS, switch from BIOS)
	Chassis Fan	1 x Header (PWM)
	Front Panel Audio header (AAFP)	1 x Header (10-1 Pin)
	System panel header	1 x Header (10-1 Pin)
	Chassis Intrusion	1 x Header
	Buzzer	1
	Speaker	1 x Header
	Clear CMOS	1 x Header
	LPT	1 x Header (2 x 13 Pin)
	COM Debug	1 x Header
	DIO	1 x Header (8 Bit)
	Audio Amplifier connector	2 (3 Watt/Channel Amplifier IC)
	LVDS Signal header	1 (support Dual Channel stand type, 40 pin)
	LCD panel monitor switch header (Panel_SW)	1 (2 pin)
	LVDS panel VCC power selection jumper (VCC_PWR_SEZL)	1 (6 pin, support 3V/5V/12V selection)
	LVDS Panel enable signal selection jumper (BKLTEN_SEL)	1 (3 pin, default with high active)
	LVDS backlight panel header (LCD_BLK_PANEL)	1 (5 pin, support 5V/12V)
	MSR Pin Header	1 (6-pin, support both USB and PS/2 mode)
	MSR Definition Change Jumper (MSR_DAT_SEL)	2 (3-pin)
	(MSR_CLK_SEL)	

Specifications

Internal Connector	RJ11 VCC selection jumper	1 (3-pin, 12V/24)
	PS/2 Keyboard/Mouse header	1 (2 x 4 Pin)
	Power out Connector	1 x 4-pin ATX DC Power Output Connector
	Power in Connector	1 x 4-pin ATX DC Power In Connector (DC in mode)
Watchdog Timer	H/W	Yes
Security	TPM	1 x SPI TPM Header
Power	Power Type	12V DC-IN
Operating System	Microsoft Windows	Windows® 10 (64bit) – version after 20'H1, 20'H2
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
Environment	Operating Temperature	0~60°C
	Non-Operating Temperature	-40~85°C
	Relative Humidity	15%~95%
Dimension	Form Factor	Mini-ITX, 170 x 170 mm

Block Diagram

N5105I-IM-A



Ordering Information

Model Name	Part Number	Description
N5105I-IM-A	90ME0340*	N5105,HDMI,VGA,LVDS,MB

Packing List

Part number	Description	Quantity
13020*	IO shield	1
14013*	SATA 6G CABLE	1
14013*	SATA PWR CABLE	2
14011*	COM CABLE	1

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