

# J6412P-IM-AA

2.5" PICO-ITX, Intel® Celeron® Processor, LPDDR4x on board, Dual HDMI, LVDS/eDP, Dual-LAN, 12-24V DC

## Features

- All-in-one onboard memory / storage design
- Supports 2.5GbE & 1GbE Ethernet for various data transmission.
- Support a wide DC power input range (12~24 VDC)
- Support TPM 2.0 on board or optional
- Support robust ASUS IoT industrial chassis (EBS-P300 system)

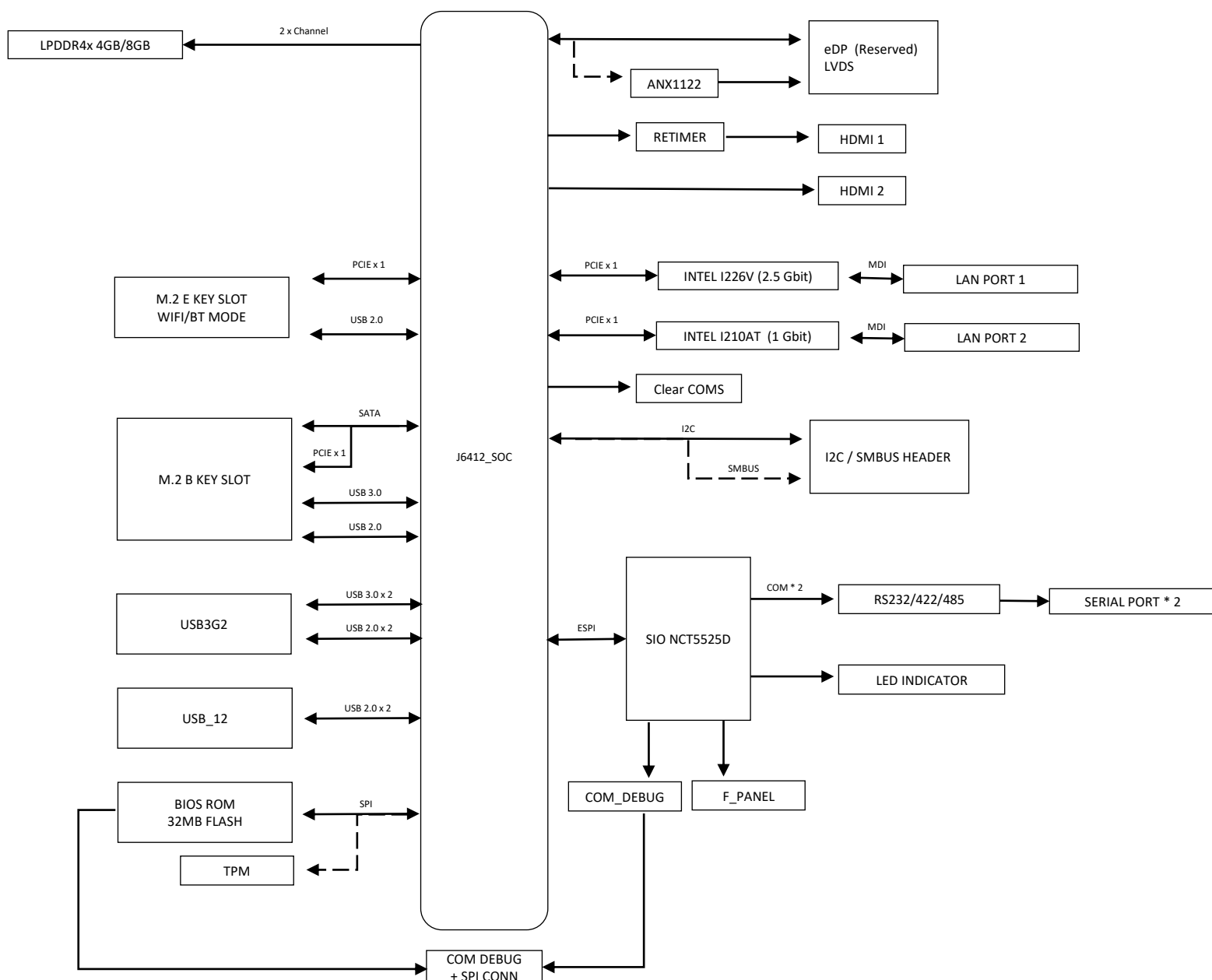


## Specifications

<b>Processor System</b>	CPU	Intel® Celeron® J6412 Processor
	Base Frequency	Up to 2.6 GHz
	Core/Tread	4/4
	CPU TDP	10W
	CPU	Intel® Celeron® J6412 Processor
<b>Memory</b>	Technology	LPDDR4x 3733
	Max.	8GB
<b>Display</b>	HDMI	2, 1 x HDMI 2.0, 1 x HDMI 1.4
	LVDS	1 (Colay with eDP) (BOM Option)
	Multiple displays	Max. 3 displays, HDMI+HDMI+LVDS, HDMI+HDMI+eDP
<b>Expansion Slot</b>	M.2	1 x 2230 M.2 E key for WIFI/BT device 1 x 2242 M.2 B Key (Support SATA /PCIe Storage)
<b>Ethernet</b>	Speed	10/100/1000/2500 Mbps
	Controller	1 x Intel® I226V (2.5 Gbe) & 1 x Intel I210AT (1 Gbe)
	Connector	2 x RJ-45
<b>Storage</b>	EMMC	128GB
	M.2	1 x 2242 M.2 B Key
<b>Rear I/O</b>	HDMI	2
	USB 3.2	2
	Ethernet	2x RJ45
	Power Type	Lockable DC Jack
	LED indicators	1, PCB Back
<b>Internal Connector</b>	Serial Port	2 x RS232/422/485
	USB2.0	1 header for 2 ports
	GPIO	1 x Header (8 Bit)
	System Panel	1 x Header
	Display Panel VCC Power Selection jumper	1 x Header
	I2C Connector	I2C/ SMBUS (I2C as default, SMBUS selected by HW BOM)
	Backlight control	1
	Clear CMOS	1
	AT/ATX Select	1

<b>Security</b>	TPM	TPM2.0, TPM on board (Infineon SLB 96xx) (optional)
<b>Power Type</b>	Power Type	Lockable Phoenix Terminal (Colay Lockable DC Jack)
	Voltage	12V-24V DC Input
<b>OS &amp; Software Support</b>	Microsoft Windows	Windows® 10 (64bit) / Windows® IoT enterprise
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
	ASUS IoT Suite	<input checked="" type="checkbox"/> HW Monitor <input checked="" type="checkbox"/> Power Scheduling <input checked="" type="checkbox"/> Fan Control <input checked="" type="checkbox"/> Watch Dog Timer <input checked="" type="checkbox"/> GPIO <input checked="" type="checkbox"/> I2C <input checked="" type="checkbox"/> Linux GPIO Sample code
	User Interfaces	<input checked="" type="checkbox"/> API <input checked="" type="checkbox"/> GUI
<b>Environment</b>	Operating Standard	0~60° C
	Storage Temperature	-40~85° C
	Relative Humidity	Operational humidity: 40°C@10%~95%
<b>Mechanical</b>	Dimensions	3.94" x 2.84" (100mm x 72mm)
<b>Certification</b>	EMC ,Safety	CE, FCC,UL

## Block Diagram



## Ordering Information

Model Name	Part Number	Description
J6412P-IM-AA	90ME08K0*	J6412, LPDDR4x 8GB, HDMI, LVDS, MB

## Packing List

Part number	Description	Quantity
14013*	USB2.0 CABLE	1
14011*	COM CABLE	1

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