

X7211REP-IM-AA, X7433REP-IM-AA, X7835REP-IM-AA

2.5" PICO-ITX, 6 - 12W Amston Lake, LPDDR5 on board ,HDMI, DP, LVDS/eDP, Dual-LAN, 9-36V DC

Features

- All-in-one onboard memory / storage design
- Supports 2 x 2.5GbE Ethernet for various data transmission.
- Support a wide DC power input range (9~36V DC)
- Support harsh industrial temperature
- Support LTE module
- Support robust ASUS IoT industrial chassis (EBS-P310W system)



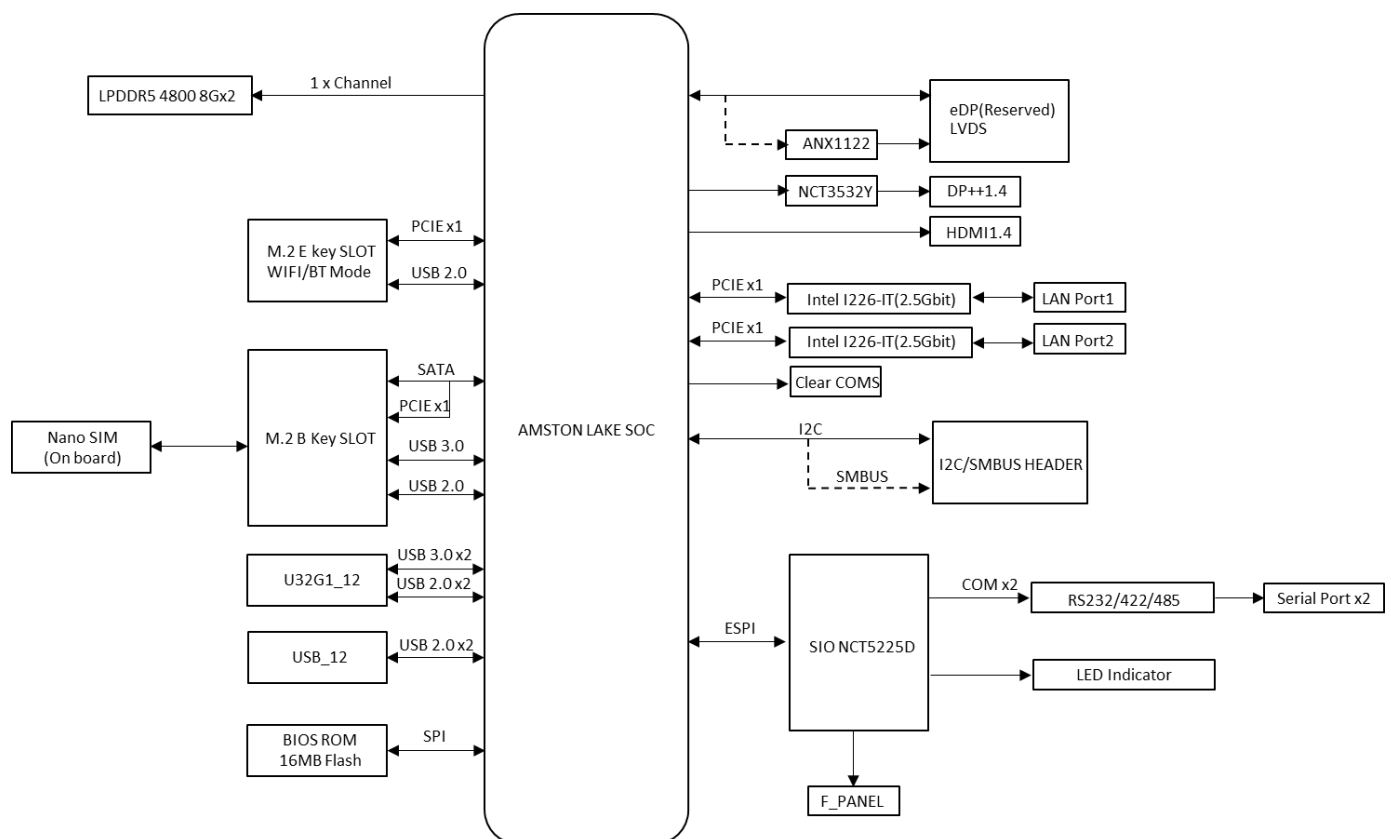
Specifications

	CPU	Atom, x7211RE	Atom, x7433RE	Atom, x7835RE
Processor System	Max. Frequency	3.2 GHz	3.4 GHz	3.6 GHz
	Base Frequency	1.0 GHz	1.5 GHz	1.3GHz
	Core/Tread	2/2	4/4	8/8
	CPU TDP	6W	9W	12W
Memory	Technology	LPDDR5 4800	LPDDR5 4800	LPDDR5 4800
	Max.	16 GB	16 GB	16 GB
Storage	EMMC	128 GB	128 GB	128GB
Display	HDMI	1, 1 x HDMI 1.4		
	DP	1		
	LVDS	1 (Colay with eDP) (BOM Option)		
	Multiple displays	Max. 3 displays, HDMI+HDMI+LVDS, DP+HDMI+eDP		
Expansion Slot	M.2	1 x 2230 M.2 E key for WIFI/BT device 1 x 2242 M.2 B Key (Support SATA /PCIe Storage) / Nano-SIM		
Ethernet	Speed	10/100/1000/2500 Mbps		
	Controller	2 x Intel® I226-IT (2.5 Gbe)		
	Connector	2 x RJ-45		
Storage	EMMC	128GB		
	M.2	1 x 2242 M.2 B Key / Nano-SIM		
Rear I/O	HDMI	1		
	DP	1		
	USB 3.2	2		
	Ethernet	2x RJ45		
	Power Type	Lockable DC Jack		
	LED indicators	1, PCB Back		
Internal Connector	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		

Specifications

Power Type	Power Type	Lockable Phoenix Terminal (Colay Lockable DC Jack)
	Voltage	9V-36V DC Input
OS & Software Support	Microsoft Windows	Windows® 10 (64bit) / Windows® IoT enterprise / Windows 11 IoT enterprise
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
	ASUS IoT Suite	☒ HW Monitor ☒ Power Scheduling ☒ Fan Control ☒ Watch Dog Timer ☒ GPIO ☒ I2C ☒ Linux GPIO Sample code
	User Interfaces	☒ API ☒ GUI
Environment	Operating Standard	-20~60° C
	Operating Extend	-40~85° C
	Storage Temperature	-40~85° C
	Relative Humidity	Operational humidity: 40° C@10%~95%
Mechanical	Dimensions	3.94" x 2.84" (100mm x 72mm)
Certification	EMC ,Safety	CE, FCC, VCCI, ISED, CE-LVD

Block Diagram



Ordering Information

Model Name	Part Number	Description
X7835REP-IM-AA	90ME09W*	X7835RE, LPDDR5 16GB, HDMI, DP LVDS, MB
X7433REP-IM-AA	90ME09X*	X7433RE, LPDDR5 16GB, HDMI, DP LVDS, MB
X7211REP-IM-AA	90ME09Y*	X7211RE, LPDDR5 16GB, HDMI, DP 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.