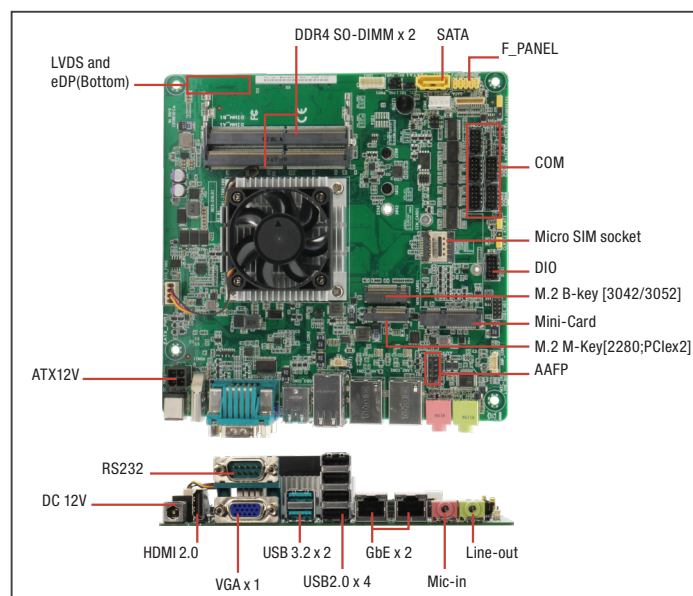




MIX-EHLD1

Mini-ITX with Intel Atom® x6000E Series/Intel® Pentium®/Celeron® N & J Series Processors (12W)



Specifications

System	
Processor	Intel Atom® x6000E Series/Intel® Pentium®/Celeron® N & J Series Processors (12W)
Chipset	—
Memory	Dual-Channel DDR4 3200 SODIMM x 2, up to 32GB, Non-ECC
I/O Chipset	Nuvoton NCT6126D
Ethernet	Realtek RTL8111H, GbE x 2
Audio	Realtek® ALC897
TPM	TPM 2.0
Expansion Slots	M.2 3042/3052 B-Key x 1 Full/Half-size mPCIe x 1 SIM Socket x 1 (default: B-key)
BIOS	256Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on Chassis
WatchDog Timer	1~255 step by software program
Smart Fan Control	Chassis Fan
Wake On LAN/ PXE	Yes (WOL / PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Intel® UHD Graphics
Graphics Multi Display	3 Independent Display (1xVGA+1x HDMI + 1x LVDS/eDP)
VGA	Up to 1920 x 1200 @60 Hz
DVI	—
HDMI	Up to 4096 x 2160 @ 60Hz
Display Port	—
LVDS	Up to 1920 x 1080 @60Hz, Dual Channel 18/24 bit (via CH7513) co-layout eDP (default LVDS)
eDP	Up to 3840 x 2160 @ 30Hz
Backlight Control	Voltage / PWM, use HW control
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	DC 12V Power consumption 60W
Operating Temperature	32°F ~ 140°F (0 ~ 60°C) (Operational humidity: 60°C @ 90% RH Non-Condensing)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Certificate	CE & FCC Class A
Form Factor	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)
Weight	1.1 lb (0.5 Kg)
MTBF (Hours)	399,940
Rear Panel I/O Ports	
USB	USB 3.2 Gen 1 x 2 USB 2.0 x 4 (upper 2 ports by BOM Optional)
Display I/O	HDMI x 1, VGA x 1

Features

- Intel Atom® x6000E Series/Intel® Pentium®/Celeron® N & J Series Processors (12W)
- DDR4 SODIMM x 2, Max 32GB
- M.2 2280 M-Key x 1, M.2 3042/3052 B-Key, Mini Card x 1
- USB 3.2 Gen 1 x 2, USB 2.0 x 4
- LAN x 2
- HDMI 2.0 x 1, VGA x 1, LVDS/eDP x 1
- Flexible rear I/O (Full I/O or Low-Profile)
- 12V DC input



Audio I/O	Mic-in x 1, Line out x 1
LAN I/O	1GbE x 2
Serial Port	RS232 by BOM Optional
PS/2 Port	—
Others	DC Jack x 1
Internal I/O Connectors	
Storage	M.2 2280 M-Key x 1 (PCIe [x2]) SATA 6Gb/s x 1 SATA Power Connector x 1 (5V/12V @1A)
USB	USB 2.0 x 2
Display I/O	40-pin LVDS / eDP connector x 1
Audio I/O	AAFP follow ASUS pin out x 1
Serial Port	Box header x 5 for COM (COM1: RS-232/422/485 supports 5V/12V/Rf; COM2~6: RS-232)
PS/2 Port	—
Parallel Port	—
DIO	Digital I/O box header x 1
FAN	4-pin Chassis Fan connector x 1
Power	—
Others	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, Clear CMOS jumper x 1, AT/ATX mode select jumper x 1
OS	
OS Support	Windows® 10 64-bit, Linux Ubuntu 64 bit (20.04.2/Kernel 5.4)

Packing List

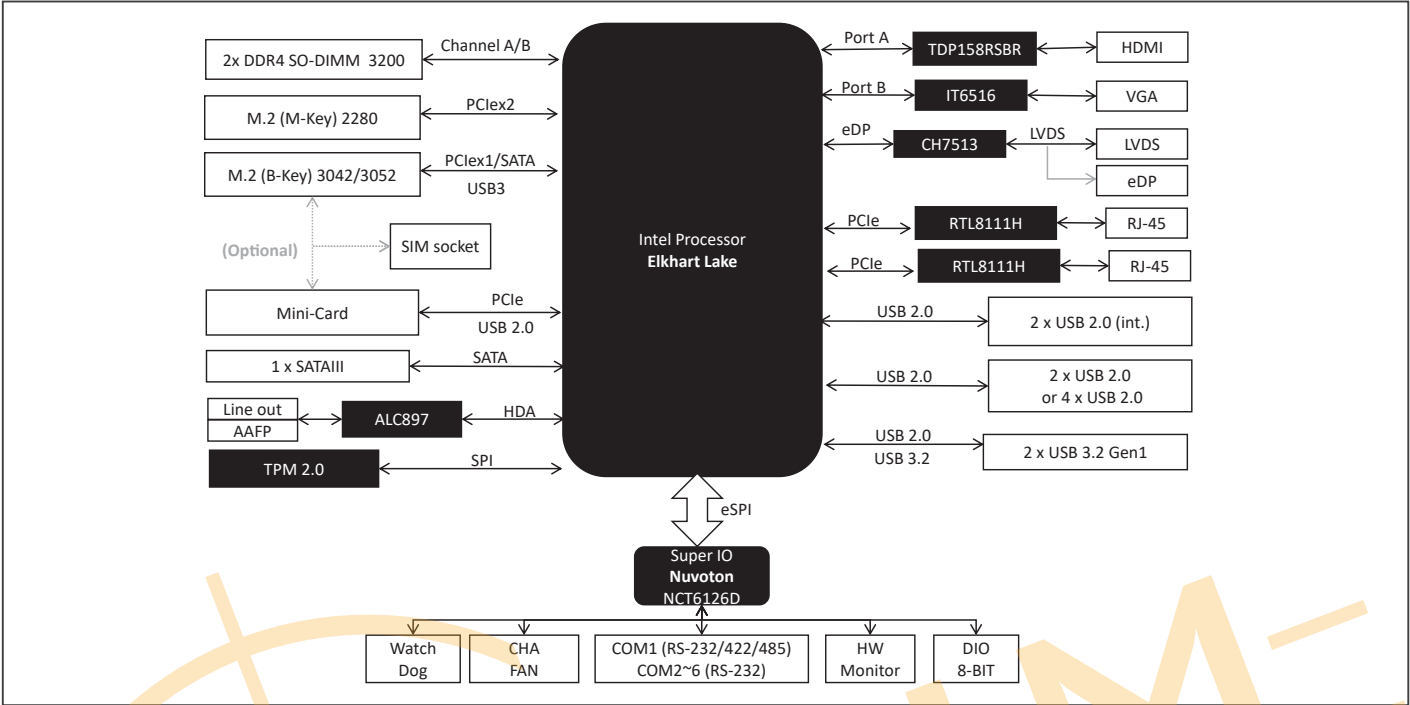
- SATA Cable
- I/O Shield
- MIX-EHLD1

Optional Accessories

Part Number	Description
1709100201	USB 2.0 Cable (10P, 200MM, p=2.00mm, w/bracket)
1700100491	USB 2.0 Cable (2 x 5P, 490mm, p=2.00mm)
1701100206	COM Cable (200MM, p=2.00mm)
125530060Z	Adapter.60W.180D.W/Lock.FSP060-DHAN3

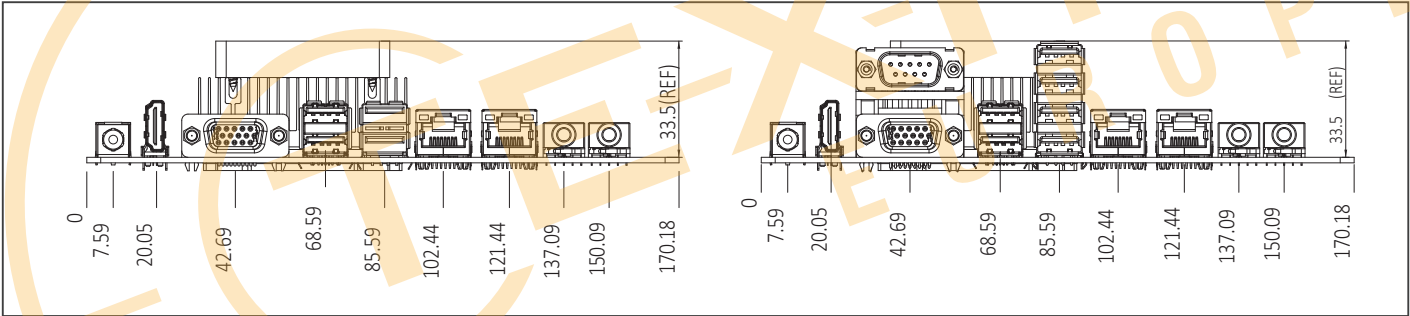


Block Diagram



Dimension

Unit: mm



Ordering Information

Part number	CPU	RAM	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	TPM	Temp.
MIX-EHLD1-A11-J6412	Intel® Celeron® Processor J6412	SODIMM x 2	Fan	VGA, HDMI, LVDS/eDP	Daul Channel 18/24 bit	SATA3 x 1, M.2(M-key)	GbE x 2	USB 2.0 x 6, USB 3.2 Gen 1 x 2	5	1	Mini-Card x 1, M.2(B-Key) x 1	12V DC	2.0	32°F ~140°F (0°C ~ 60°C)
MIX-EHLD1-A11-X6413	Intel Atom® x6413E	SODIMM x 2	Fan	VGA, HDMI, LVDS/eDP	Daul Channel 18/24 bit	SATA3 x 1, M.2(M-key)	GbE x 2	USB 2.0 x 6, USB 3.2 Gen 1 x 2	5	1	Mini-Card x 1, M.2(B-Key) x 1	12V DC	2.0	32°F ~140°F (0°C ~ 60°C)

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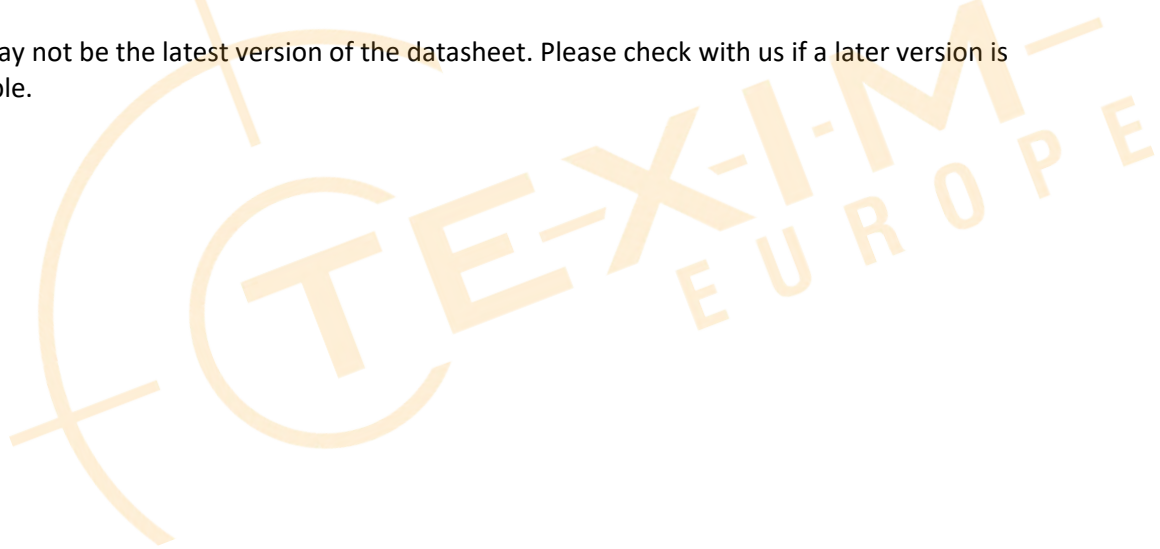
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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