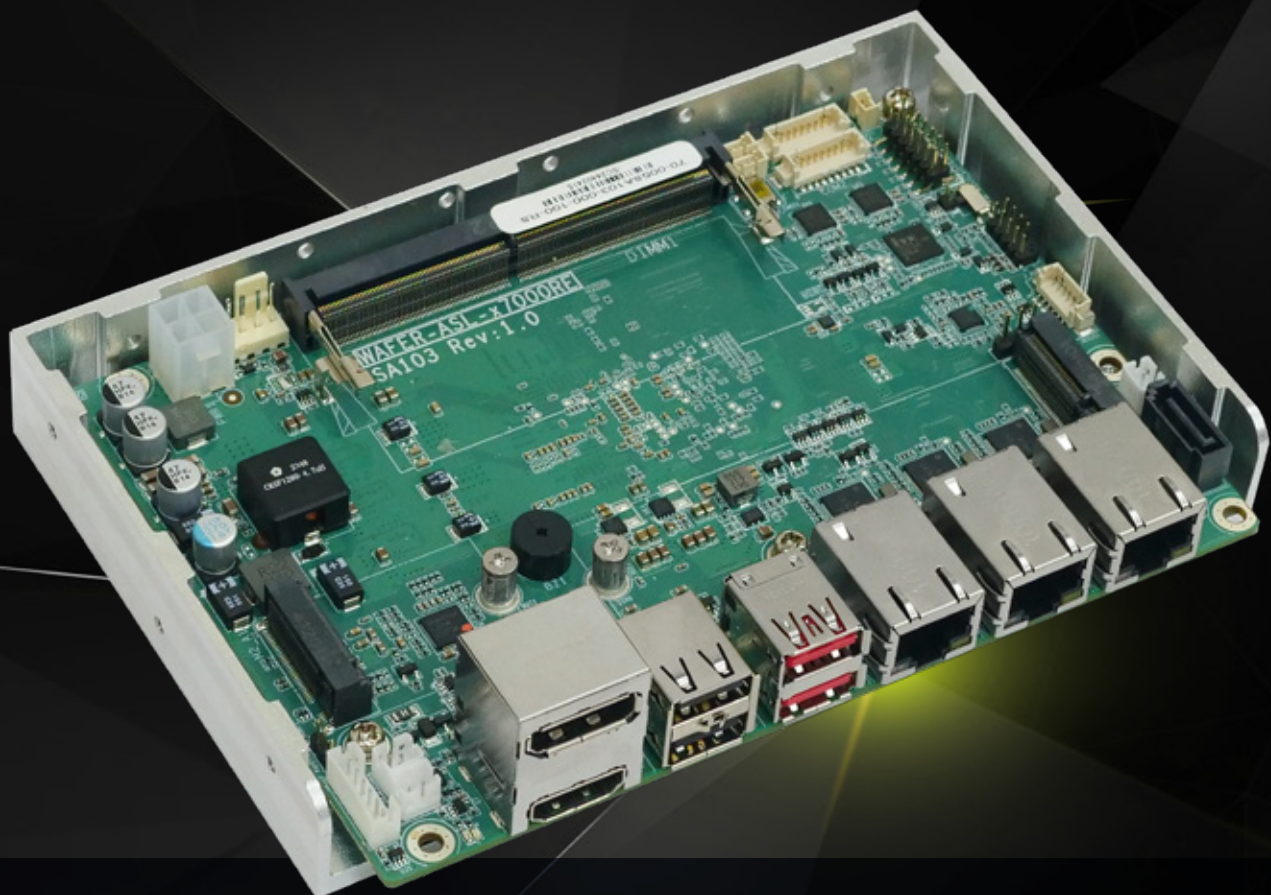


WAFER-ASL

3.5 SBC supports Intel® Atom™ X7000 RE series on-board SoC

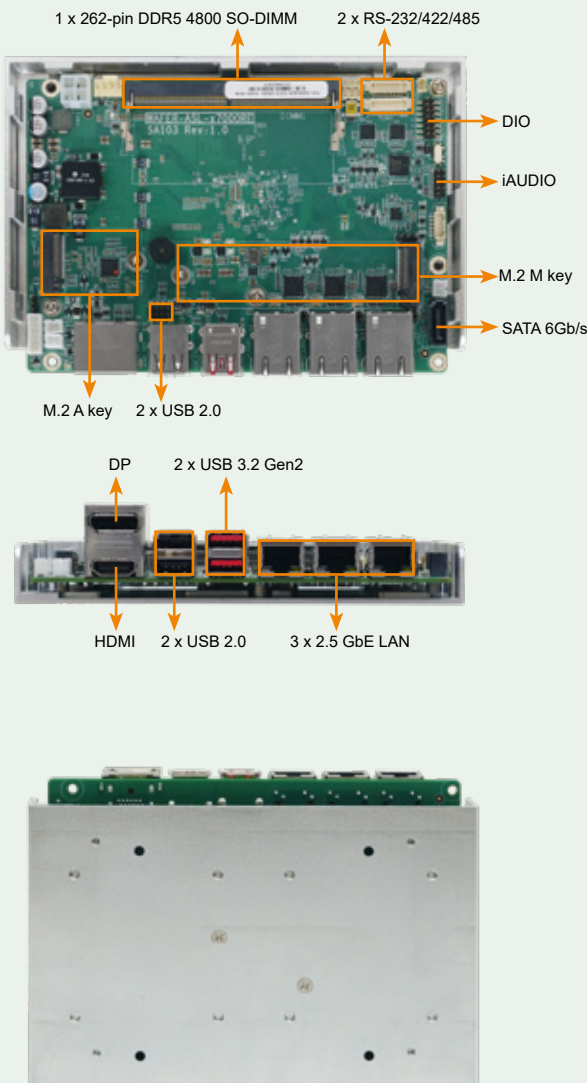
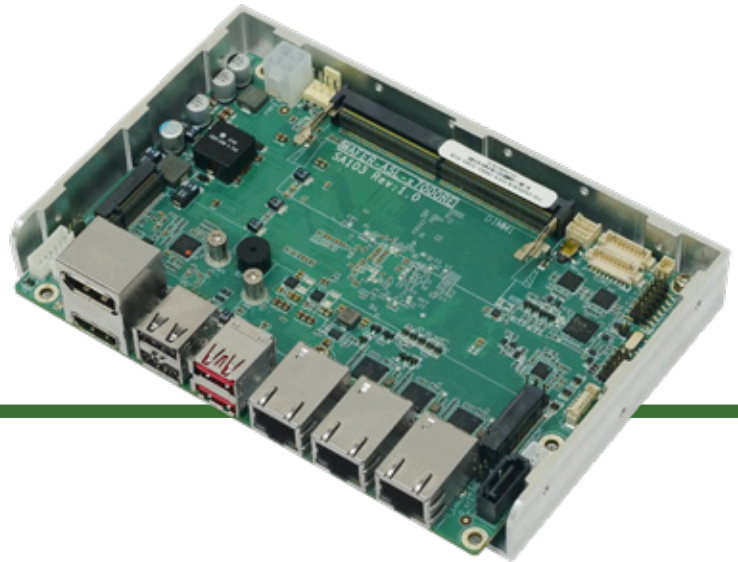
- One DDR5 4800 SO-DIMM, Up to 16GB
- Double displays with 1 x HDMI 2.0 , 1 x DP 1.4
- High speed I/O interface for USB 3.2 gen 2, SATA 6Gb/s
- Support 3 x 2.5GbE with i226-IT
- Support M.2 A Key and M.2 M key



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3.5 SBC supports Intel® Atom™ X7000 RE series on-board SoC, double display with DP, HDMI, triple 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM and RoHS, -40°C ~85°C



Low-power Intel® Amston Lake Atom™ x7000 series processor

Equip with Intel® Amston Lake Atom™ X7211RE, X7213RE, Atom™ X7433RE and Atom™ x7835RE on board processor



Supporting Intel® I226-IT 2.5GbE Controllers

Three RJ45 network interfaces are supported via Intel® I226-IT 2.5GbE controllers, achieving up to 2.5GbE network transmission rate.



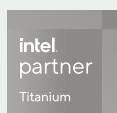
Wide voltage input and wide temperature operation

Supports +12V~28V DC voltage input and -40°C~85°C wide temperature operating environment. Meet the performance requirements of different application scenarios

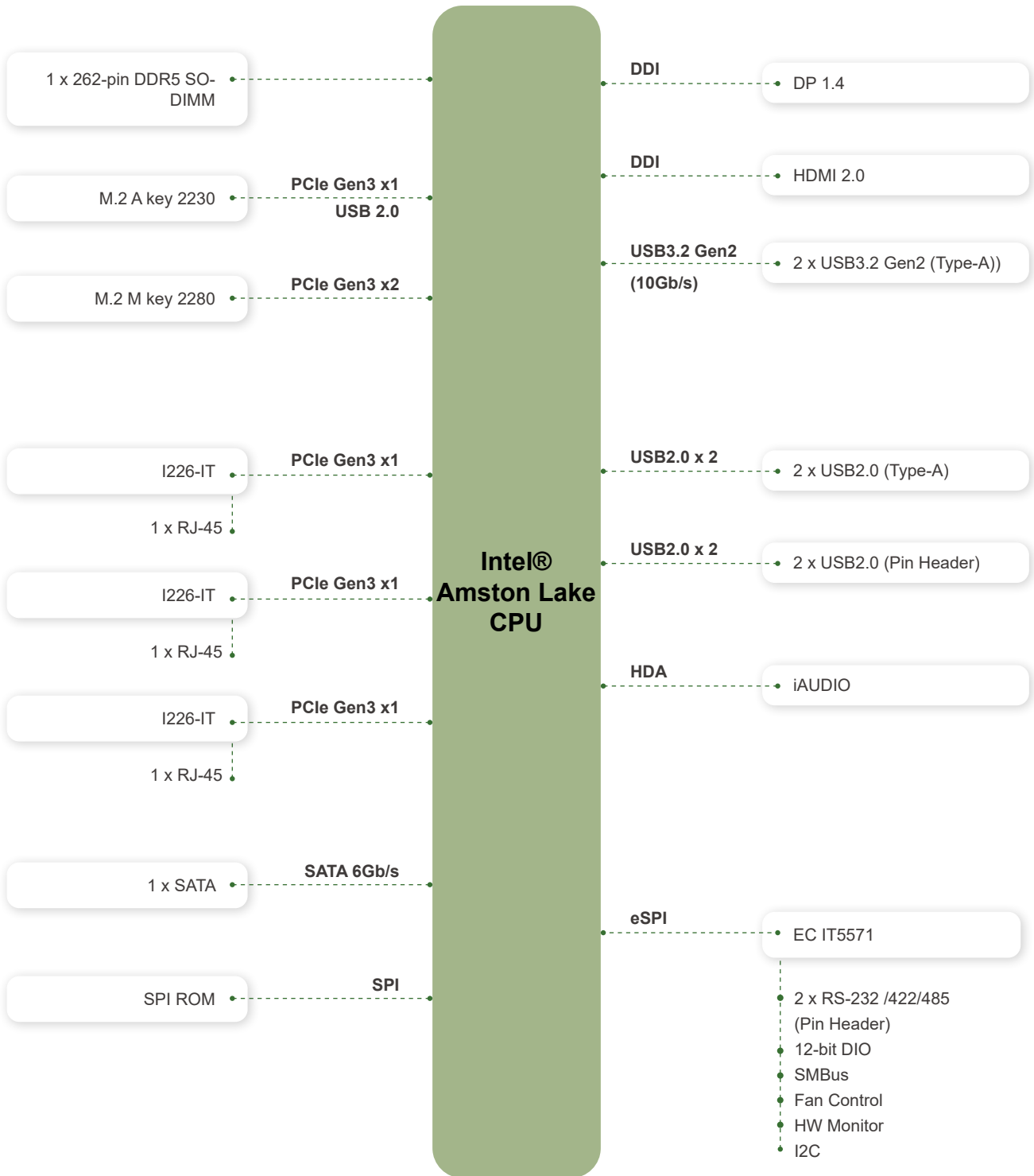


Flexible design of thermal solutions

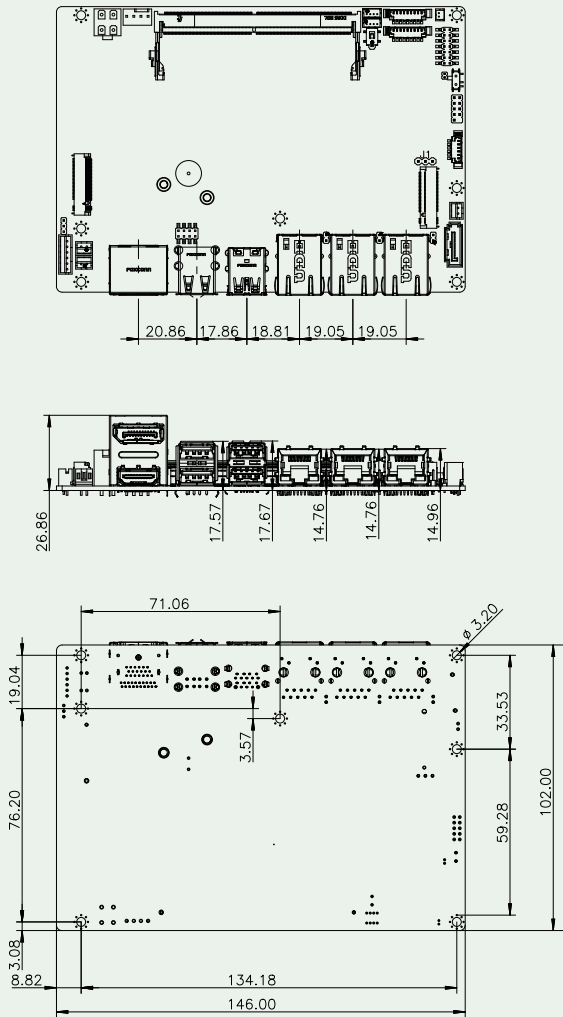
In order to guarantee the operation of the motherboard in a wide temperature range of -40°C~85°C, customers can customize thermal solutions from IEI or design their own thermal solutions



Block Diagram



Dimensions



Specifications

Model	WAFER-ASL
SoC	Intel® Amston Lake Atom™ x7000 series SOC processor Intel Atom® x7433RE on-board CPU Intel Atom® x7835RE on-board CPU
BIOS	AMI UEFI BIOS
Memory	1 x 262-pin DDR5 4800 SO-DIMM, Up to 16GB
Graphics Engine	Gen 12 UHD Graphics
Display Output	Double Independent Displays 1 x HDMI 2.0 (up to 4096 x 2160 @ 60Hz) 1 x DP 1.4 (up to 4096 x 2160 @ 60Hz)
Ethernet	3 x Intel® i226-IT 2.5 GbE LAN
External I/O Interface	2 x USB 3.2 Gen 2 2 x USB 2.0
Internal I/O Interface	1 x SATA 6Gb/s with 5V SATA power connector 2 x USB 2.0 (2x4 pin, P=2.0) 2 x RS-232/422/485 (1x9 pin, P=1.25)
I2C	1 x I2C (1x4 pin, P=1.25)
SMBus	1 x SMBus (1x4 pin, P=1.25)
TPM	Support Intel PTT (TPM 2.0)
Audio	1 x iAUDIO Support IEI AC-KIT-888s (2x5 pin, P=2.0)
Front Panel	1 x Power LED & HDD LED (1x6 pin) 1 x Power button (1x2 pin) 1 x Reset button (1x2 pin)
LAN LED	3 x LAN LED (1x2 pin)
Expansion	1 x M.2 A Key 2230 (PCIe Gen3 x1 & USB 2.0) 1 x M.2 M Key 2280 (PCIe Gen3 x2)
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
FAN connector	1 x CPU fan connector (1x4 pin)
Power supply	+12V~28V DC input power (AT/ATX mode) 1 x Internal power connector (2x2 pin)
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	12V@4.163A; 19V@2.618A; 24V@2.057A; 28V@1.771A (Intel® Atom(TM) x7835RE with 16 GB 4800 MHz LPDDR5 memory, max. loading, EuP mode disabled)
Operating Temperature	-40°C ~ 85°C
Storage Temperature	-40°C ~ 85°C
Operating Humidity	5% ~95%, non-condensing
Diemension	146mm x 102mm
Weight	GW:850g / NW:350g
Certification	CE/FCC Compliant

Packing List

1 x WAFER-ASL single board computer	1 x QIG
1 x SATA with power cable kit (PN: 32801-000201-200-RS)	

Optional Accessories



Ordering Informaiton

WAFER-ASL-R3-R10	3.5 SBC supports Intel® Atom™ x7433RE on-board SoC, double display with DP, HDMI, triple 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM and RoHS, -40°C ~85°C
WAFER-ASL-R4-R10	3.5 SBC supports Intel® Atom™ x7835RE on-board SoC, double display with DP, HDMI, triple 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM and RoHS, -40°C ~85°C

Optional Accessories

32001-008600-200-RS	Dual-port USB 2.0 cable, 210mm, P=2.0
32205-008000-100-RS	Flat cable, RS-232/422/485, 250mm, 1x9 pin, P=1.25
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board, RoHS
CM-WAFER-WOF-R10	Cooler Module (W/O FAN); Supports operating temperatures up to 65°C
CM-WAFER-WF-R10	Cooler Module (W/FAN); Supports operating temperatures up to 65°C