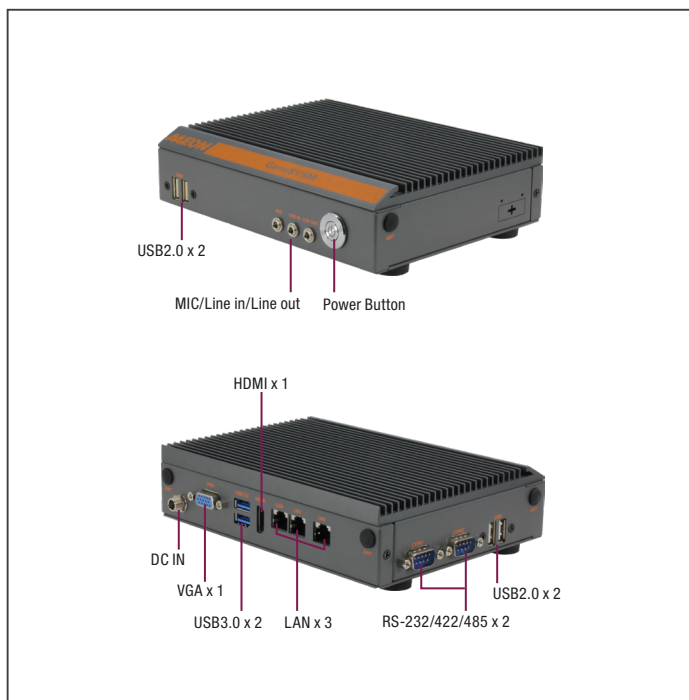


GENESYSM-ASL6

GENE System with Intel Atom® x7000RE Series Processors



Features

- Intel Atom® x7000RE Series Processors
- DDR5 4800, SODIMM x 1, up to 16GB
- HDMI 1.4, VGA
- 2.5GbE x 3, SATA 6Gb/s, GPIO 8-bit
- USB 3.2 Gen 2 x 2, USB 2.0 x 4, RS-232/422/485 x 2
- Mini PCIe Card, M.2 2230 E-Key, M.2 3052 B-Key
- Wide 9V-36V DC Input



Internal I/O	
USB	—
Serial Port	—
Video	—
SATA	SATA 6.0 Gb/s x 1 +5V SATA Power Connector x 1
Audio	Audio Header x 1
DIO/GPIO	GPIO 8-bit
SMBus/I2C	SMBus/I2C x1 (Default: SMBus)
Touch	—
Fan	—
Sim	Nano SIM x 1
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
Expansion	
Mini PCIe/mSATA	Full-size mSATA / mPCIe x 1 (Default: mSATA, select by BIOS)
M.2	M.2 2230 E-Key x 1 (PCIe 3.0 [x1] + USB2.0) M.2 3052 B-Key x 1 (USB3.2 Gen2 + USB2.0)
Others	—
Environment & Certification	
Operating Temp.	-4°F ~ 158°F (-20°C ~ 70°C) 0.7m/s air flow
Storage Temp.	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	819,771
EMC	CE/FCC Class A

Specifications

System	
Form Factor	3.5" SubCompact Board System
CPU	Intel Atom® x7000RE Series Processors: Intel Atom® x7433RE (4C, up to 3.4 GHz, 9W) Intel Atom® x7835RE (8C, up to 3.6 GHz, 12W)
Chipset	Integrated with Intel® SoC
Memory Type	DDR5 4800, Single Channel SODIMM x 1, Max. 16GB, Non-ECC
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Security	TPM 2.0 (Optional)
RTC Battery	Lithium Battery 3V/240mAh
Dimensions	7.00" x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
OS Support	Windows 10 (64-bit) Windows 11 (64-bit) Ubuntu 22.04 / Kernel 5.15.0-25-generic
Power	
Power Requirement	+9-36V
Power Supply Type	ATX
Connector	DC Jack Connector
Power Consumption	Intel Atom® x7835RE, DDR5 16GB x 1, 3.2A @+12V(Typical) Intel Atom® x7835RE, DDR5 16GB x 1, 4.8A @+12V(Max)
Display	
Controller	Intel® UHD Graphics
LVDS/eDP	—
Display Interface	HDMI 1.4 x 1, up to 3840 x 2160 @30Hz VGA x 1, up to 1920 x 1080
Multiple Display	Up to 2 Simultaneous Displays
Audio	
Codec	Realtek ALC897
Audio Interface	Line-In/Line-Out/MIC
Speaker	—
External I/O	
Ethernet	Intel® Ethernet Controller I226, 2.5GbE RJ-45 x 3
USB	USB 3.2 Gen 2 x 2 USB 2.0 x 4
Serial Port	COM1, COM2 (RS-232/422/485, supports 5V/12V/RI) COM3, COM4 (RS-232 x 2, optional)
Video	HDMI 1.4 x 1, VGA x 1

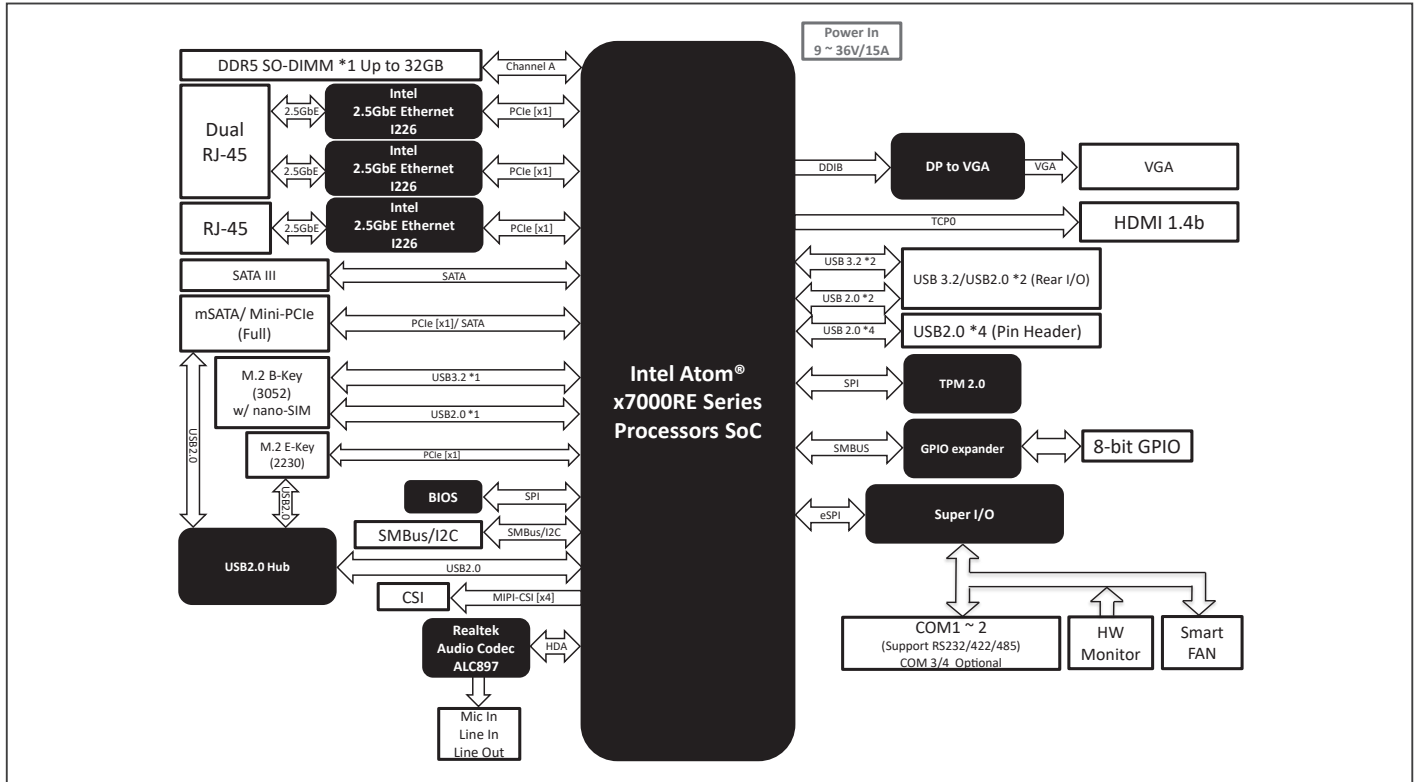
Packing List

Part Number	Description	QTY
GENESYSM-ASL6	GENESYSM-ASL6 System	1

Optional Accessories

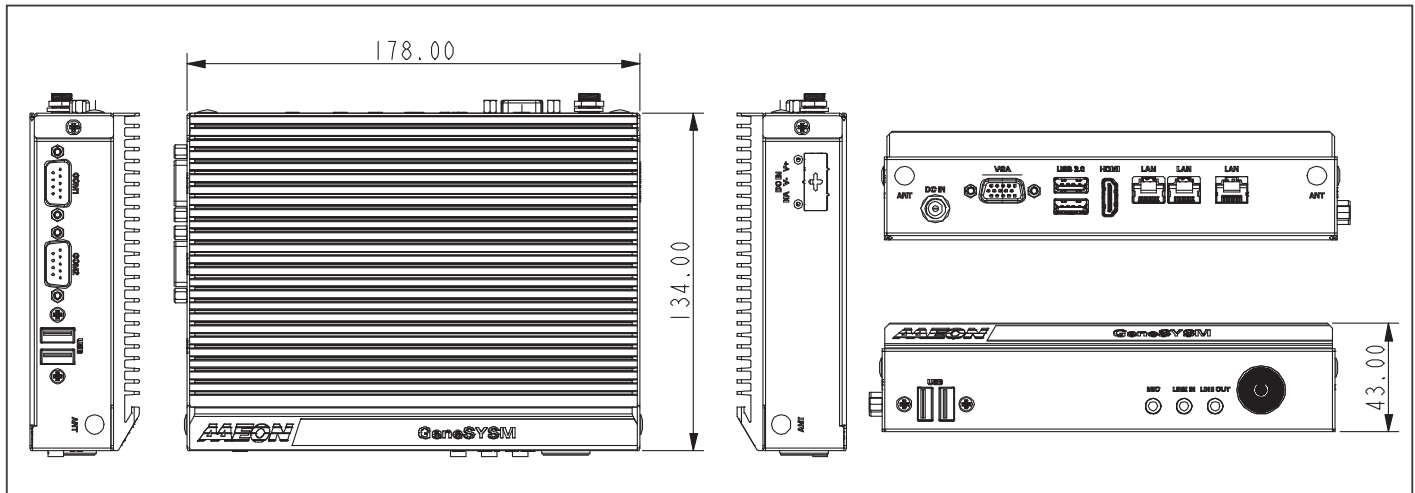
Part Number	Description	QTY
1702031802	Power Cord (US Type)	1
1702031803	Power Cord (Europe Type)	1
170203180E	Power Cord (Japan)	1
1255300960	Power Adapter 12V/8A 96W W/lock.FSP096-AHAN3/9NA0961403	1
1255X00063	Power Adapter 12V/12.5A 150W w/Lock 180D.DELTA.DPS-150AB-15 J	1
GENESYSM-ALL-VESA1	VESA Mount Kit.For GENESYSM series	1
GENESYSM-ALL-WMT1	Wall Mount Kit.For GENESYSM series	1
GENESYSM-ADN6-DIN1	Din Rail Kit. For GENESYSM-ADN6	1

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/Fanless	Display	Storage	LAN	USB	RS-232/422/485	Expansion slot	TPM	Power	Operating Temp	Others
GENESYSM-ASL6-A10-P001	Intel Atom® x7433RE	Fanless	HDMI x 1 VGA x 1	SATA x 1	2.5GbE x 3	USB 3.2 Gen 2 x 2 USB 2.0 x 4	2	M.2 3052 B-Key x 1 M.2 2230 E-Key x 1 MiniCard x 1	2.0	9~36V	-20°C~70°C	Audio, Nano SIM, GPIO x 8, SMBUS
GENESYSM-ASL6-A10-P002	Intel Atom® x7835RE	Fanless	HDMI x 1 VGA x 1	SATA x 1	2.5GbE x 3	USB 3.2 Gen 2 x 2 USB 2.0 x 4	2	M.2 3052 B-Key x 1 M.2 2230 E-Key x 1 MiniCard x 1	2.0	9~36V	-20°C~70°C	Audio, Nano SIM, GPIO x 8, SMBUS