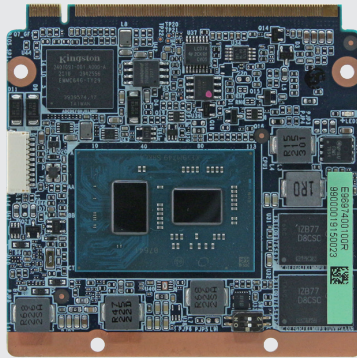


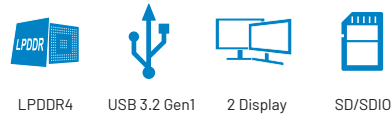
# EQM-EHL

Intel Atom®x6000E Series/Pentium®/Celeron® SoC Processor Qseven Module



## Features

- Intel Atom®x6000E Series/Pentium®/Celeron® SoC processor Qseven Spec. Rev. 2.1 Compliant
- Onboard Single Channel LPDDR4 4GB Memory Down (8GB for BOM Option) with 3200MT/s
- 1 x Intel® I226LM/IT
- Intel® HD Audio Integrated on CPU
- Onboard eMMC 5.1 64/128GB (Optional)
- Onboard TPM 2.0
- Qseven Size: 2.75" x 2.75" (70mm x 70mm)
- DC in +5V



## Specifications

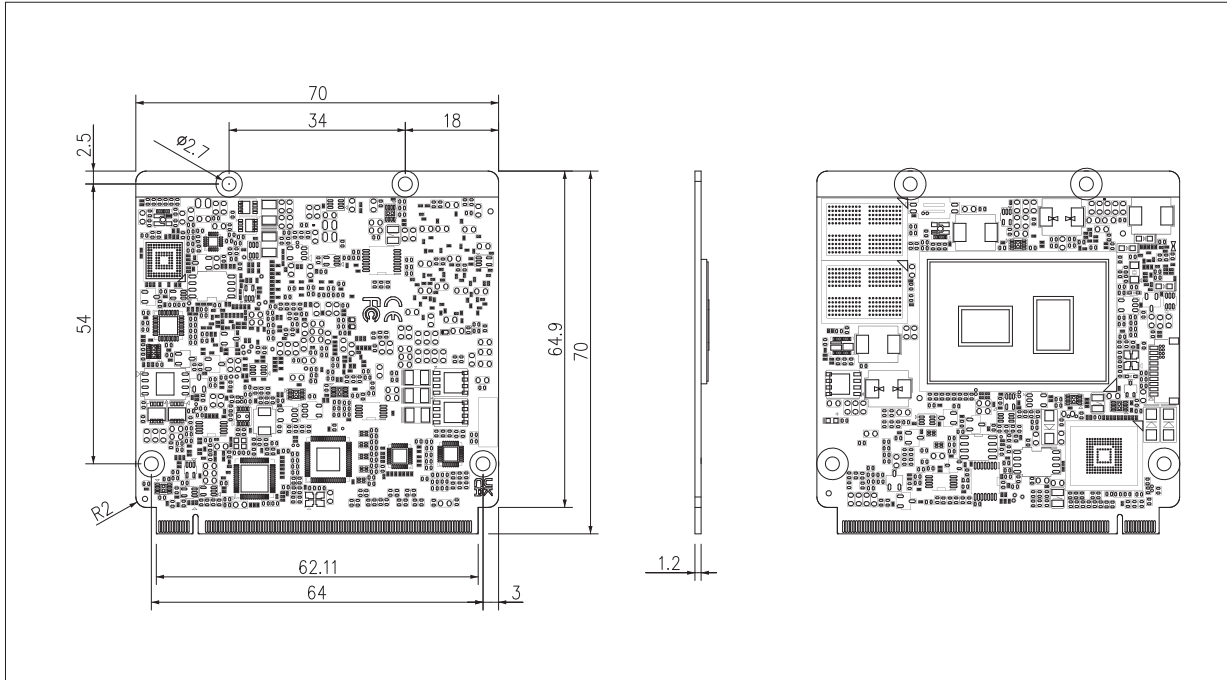
System Information	
Processor	Intel® Atom™ x6000E Series/Pentium®/Celeron® SoC Processor
System Memory	Onboard Single Channel LPDDR4 4GB Memory Down (8GB for BOM Option) with 3200MT/s
I/O Chipset	EC ITE IT5571
Watchdog Timer	H/W Reset, 1Sec. ~ 65535Sec. and 1Sec./Step
BIOS	AMI uEFI BIOS, 256 Mbit SPI Flash ROM
H/W Status Monitor	Monitoring System Temperature, Voltage with Auto Throttling Control
TPM	Onboard TPM 2.0
Expansion	
Expansion	4 x PCIe x1 (Gen 3)
Storage	
Storage	Onboard eMMC 5.1 64GB / 128 GB (Optional)
Display	
Graphic Chipset	Intel® SoC Processor Integrated Gen11 LP Graphics
Spec. & Resolution	DP 1.4 Max Resolution 4096x2160 @60Hz or HDMI 2.0b Max Resolution 4096x2160 @60Hz eDP 1.3 Max Resolution 4096x2160 @60Hz Only or LVDS Max Resolution 1920 x 1080@60Hz Dual Channel 18/24-bits LVDS (Chrontel CH7511A-BF eDP to LVDS) *By BOM Option Via HW/BIOS, Refer to Block Diagram for Detail.
Multiple Display	Up to 2 Independent Display HDMI DP eDP LVDS
LVDS	CH7511B(eDP to LVDS)

Audio	
Audio Interface	Intel® HD Audio Integrated on CPU
Ethernet	
LAN Chipset	1 x Intel® I226LM/IT
Ethernet Interface	10/100/1000/2500 Base-Tx GbE Compatible
Software Support	
OS	Windows 10, Windows 11 IoT Enterprise (64-bit) Linux
Certification	
Certification Information	CE, FCC Class, RoHS Compliant
I/O	
USB	1 x USB 3.2 Gen1 8 x USB2.0
COM Port	1 x UART
PCIe	4 x PCIe x1 (Gen 3)
SATA	2 x SATA III
MIO	1 x SMBus 1 x LPC 1 x I2C 1 x SDIO 1 x SD 1 x SPI
Mechanical & Environmental	
Operating Temp.	Standard 0°C ~ 60°C (32°F ~ 140°F) Extended -40°C ~ 85°C (-40°F ~ 185°F)
Storage Temp.	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.095lbs (0.043Kg)
Power Requirement	+5V
Power Mode	ATX
Dimension (L x W)	2.75" x 2.75" (70mm x 70mm)

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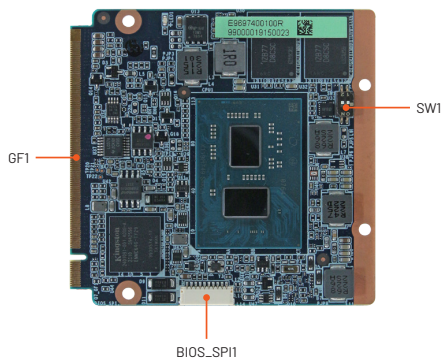
## Mechanical Drawing



## Ordering Information

P/N	CPU	PCH	LVDS/eDP	TPM	Memory	Storage	Operating Temp.	Thermal Solution
EQM-EHL-N11-A1-1R	Intel® Celeron® SoC Processor N6211	NA	LVDS	Onboard TPM 2.0	Onboard Single Channel LPDDR4	eMMC 5.1 64/128GB (Optional)	0°C - 60°C (32°F - 140°F)	ACC-EQMEHL-SK-1R W/O FAN H=20mm
EQM-EHL-N15-A1-1R	Intel® Pentium® SoC Processor N6415	NA	LVDS	Onboard TPM 2.0	Onboard Single Channel LPDDR4	eMMC 5.1 64/128GB (Optional)	0°C - 60°C (32°F - 140°F)	ACC-EQMEHL-SK-1R W/O FAN H=20mm
EQM-EHL-X11E-A1-1R	Intel® Atom® SoC Processor X6211E	NA	LVDS	Onboard TPM 2.0	Onboard Single Channel LPDDR4	eMMC 5.1 64/128GB (Optional)	-40°C - 85°C (-40°F - 185°F)	ACC-EQMEHL-CL-1R W/ FAN H=42mm
EQM-EHL-X13E-A1-1R	Intel® Atom® SoC Processor x6413E	NA	LVDS	Onboard TPM 2.0	Onboard Single Channel LPDDR4	eMMC 5.1 64/128GB (Optional)	-40°C - 85°C (-40°F - 185°F)	ACC-EQMEHL-CL-1R W/ FAN H=42mm

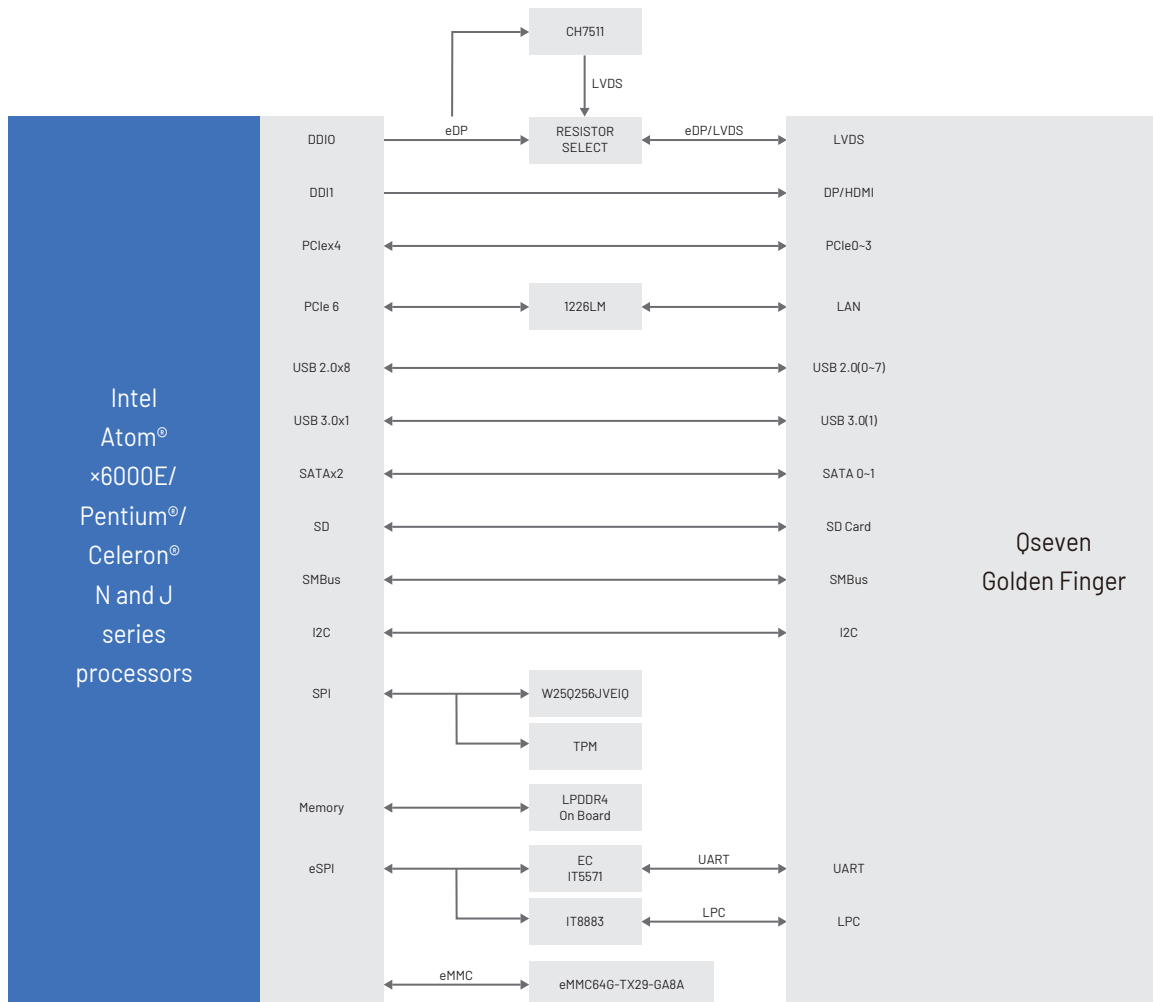
## I/O Overview



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## Block Diagram



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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