

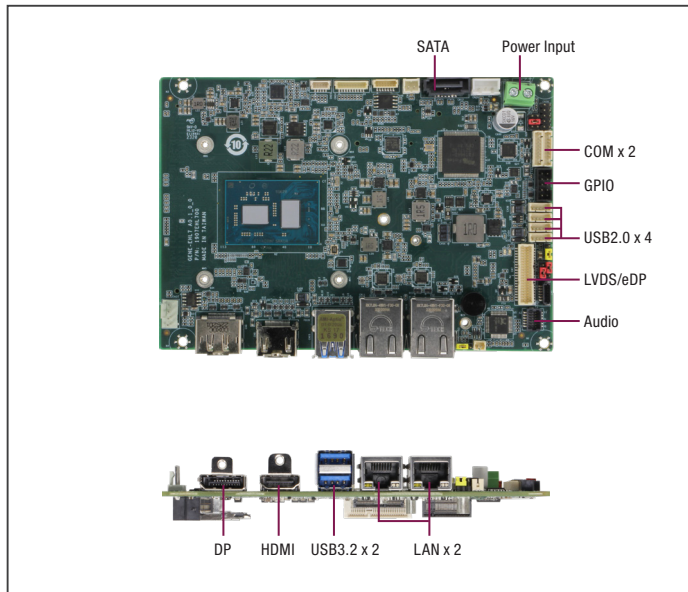
GENE-EHL7

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SubCompact Board with Intel Atom® x6000E Series, and Intel® Pentium® and Celeron® N and J Series Processors



Features

- DDR4 3200MHz SODIMM x 1, up to 32GB
- HDMI 1.4 x 1, DP 1.4 x 1, LVDS/eDP x 1
- GbE x 2, SATA 6.0 Gb/s x 1, GPIO x 8-bit
- USB 3.2 Gen 2 x 2, USB 2.0 x 4, RS-232/422/485 x 1, RS-232 x 1
- Mini PCIe Card x 1, M.2 2230 E-Key x 1, M.2 2280 M-Key x 1



Specifications

SYSTEM	
FORM FACTOR	3.5" SubCompact Board
CPU	Intel Atom® x6000E series, Pentium®, and Celeron® N and J series Processors: x6413E (4C/4T, 1.50GHz, 9W) J6412 (4C/4T, 2.00GHz, 10W) N6210 (2C/2T, 1.20GHz, 6.5W)
CHIPSET	Integrated with Intel® SoC
MEMORY TYPE	Single-Channel DDR4 3200MHz SODIMM x 1, Max. 32GB, Non-ECC *IBEC supported by selected CPU SKU
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	TPM 2.0 (Optional)
RTC BATTERY	Lithium Battery 3V/240mAh
DIMENSION	5.75" x 4" (146mm x 101.7mm), 0.83 lbs (0.38 kg)
OS SUPPORT	Windows 10 (64bit) Linux Ubuntu 20.04.5 / 5.15.0-46-generic
POWER	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	AT/ATX
CONNECTOR	Phoenix 2-pin Connector
POWER CONSUMPTION	Intel Atom® x6413E, DDR4 32GB, 2.17A @+12V (Typical) Intel Atom® x6413E, DDR4 32GB, 2.72A @+12V (Max)
DISPLAY	
CONTROLLER	Intel® UHD Graphics for 10th Gen Intel® Processors
LVDS/eDP	Dual-Channel 18/24-bit LVDS x 1, up to 1920 x 1080 eDP 1.3 x 1, up to 1920 x 1200 (Optional)
DISPLAY INTERFACE	HDMI 1.4 x 1, up to 3840 x 2160 @ 30Hz DP 1.4 x 1, up to 3840 x 2160 @ 120Hz
MULTIPLE DISPLAY	Up to 3 Simultaneous Displays
AUDIO	
CODEC	Realtek ALC897
AUDIO INTERFACE	Line-In / Line-Out / Mic
SPEAKER	—
EXTERNAL I/O	
ETHERNET	Realtek RTL8111H 1GbE, RJ-45 x 2
USB	USB 3.2 Gen2 x 2
SERIAL PORT	—
VIDEO	HDMI 1.4 x 1 DP 1.4 x 1
INTERNAL I/O	
USB	USB 2.0 x 4

SERIAL PORT	COM1 (RS232/422/485, supports 5V/12V/RI) COM2 (RS232)
VIDEO	LVDS / eDP x 1 (Default: LVDS) Inverter x 1 (12V/2A)
SATA	SATA 6.0 Gb/s x 1 +5V SATA Power Connector x 1
AUDIO	Audio Header x 1
DIO/GPIO	GPIO 8-bits
SMBus/I2C	SMBus / I2C x 1 (Default: SMBus)
TOUCH	—
FAN	4pins Smart Fan x 1
SIM	—
FRONT PANEL	HDD LED, PWR LED, Power Button, Buzzer, Reset
OTHERS	—
EXPANSION	
Mini PCI-E/mSATA	Full-size mPCIe x 1
M.2	M.2 2230 E-Key x 1 (PCIe 3.0 [x1], USB2.0) M.2 2280 M-Key x 1 (PCIe 3.0 [x2] / SATA), SATA select by BOM
OTHERS	—
ENVIRONMENT & CERTIFICATION	
OPERATING TEMP.	32°F ~ 140°F (0°C ~ 60°C)
STORAGE TEMP.	-40°F ~ 185°F (-40°C ~ 85°C)
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing
MTBF (HOURS)	484,355
EMC	CE/FCC Class A

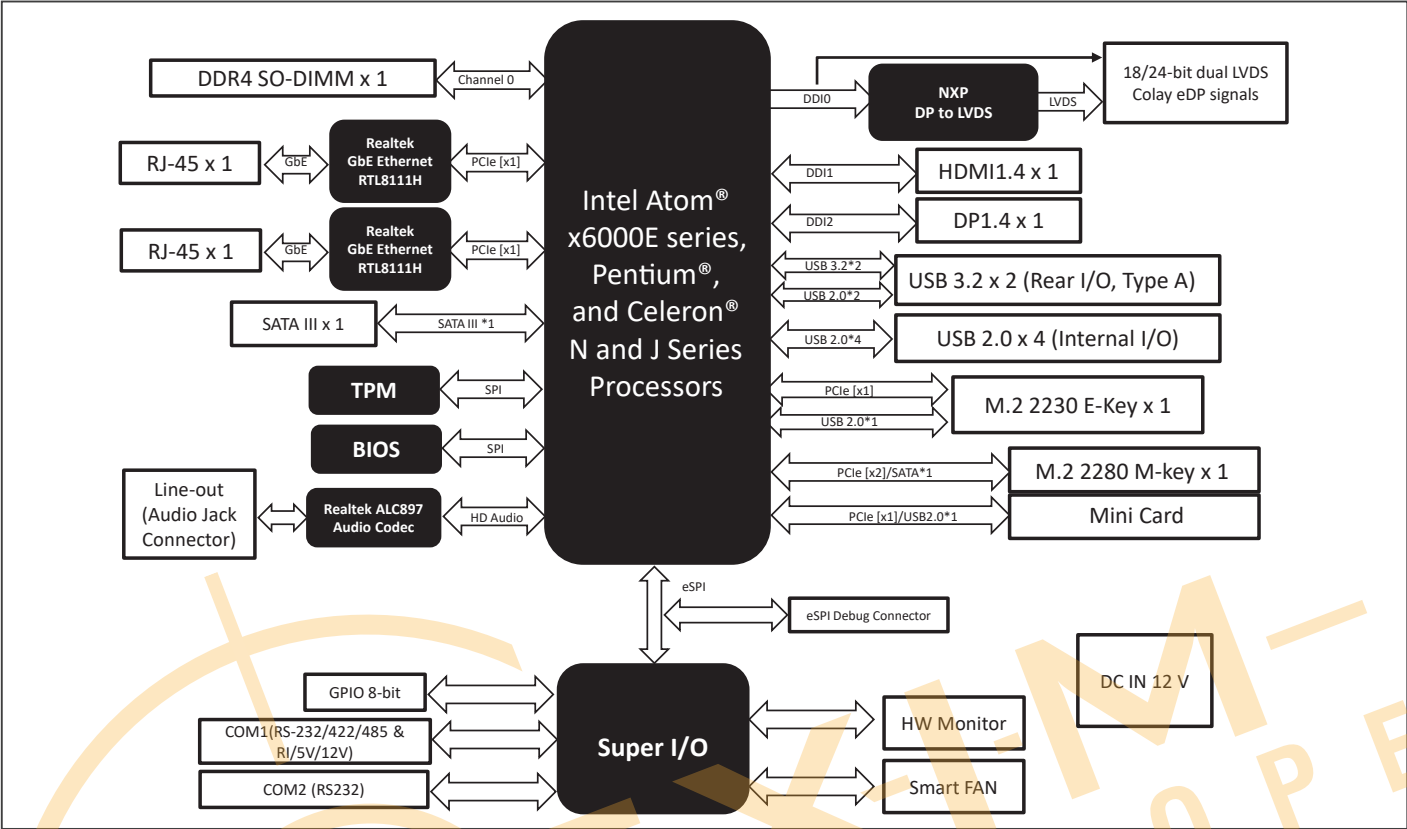
Packing List

Description	QTY
GENE-EHL7 MB	1

Optional Accessories

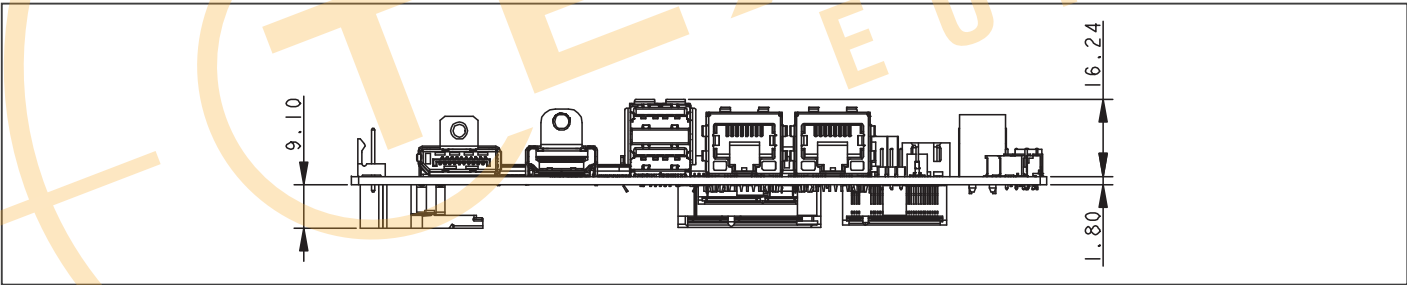
Part Number	Description	QTY
GENE-EHL7-HSK01	Heat Sink.60*60*25mm	1
1702150155	SATA HDD Power Cable, 15cm	1
170X000398	Power Cable, DC JACK, 30cm	1
170204010R	Power Cable, Double 4P, 10cm	1
170X000156	Audio Cable, 25cm	1
1701090150	COM Port Cable, 15cm	2
1700050207	USB 2.0 Cable, 20cm	4

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Display	LAN	USB	RS-232	RS-232/422/485	Storage	Expansion Slot	TPM	POWER	TEMP	Others
GENE-EHL7-A10-0001	N6210	DP x 1, HDMI x 1, LVDS x 1	GbE x 2	USB 3.2 Gen 2 x 2 USB 2.0 x 4	1	1	SATA x 1	M.2 2280 M-Key x 1, M.2 2230 E-Key x 1, mPCIe (Full size)x 1	2.0	12V	0°C ~ 60°C	Audio, DIO, SMBUS
GENE-EHL7-A10-0002	J6412	DP x 1, HDMI x 1, LVDS x 1	GbE x 2	USB 3.2 Gen 2 x 2 USB 2.0 x 4	1	1	SATA x 1	M.2 2280 M-Key x 1, M.2 2230 E-Key x 1, mPCIe (Full size)x 1	2.0	12V	0°C ~ 60°C	Audio, DIO, SMBUS
GENE-EHL7-A10-0003	x6413E	DP x 1, HDMI x 1, LVDS x 1	GbE x 2	USB 3.2 Gen 2 x 2 USB 2.0 x 4	1	1	SATA x 1	M.2 2280 M-Key x 1, M.2 2230 E-Key x 1, mPCIe (Full size)x 1	2.0	12V	0°C ~ 60°C	Audio, DIO, SMBUS

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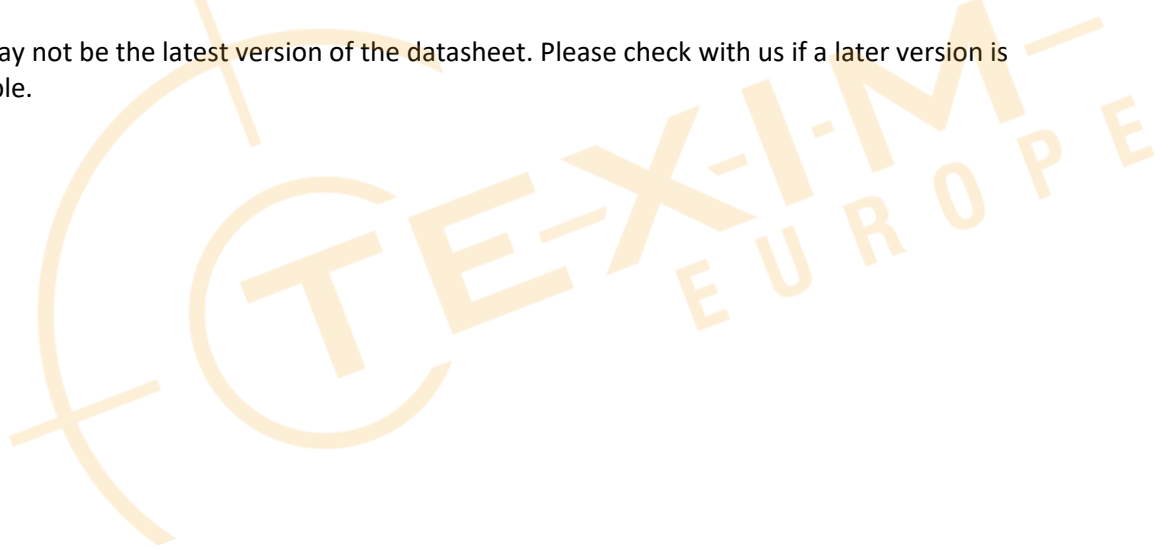
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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

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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