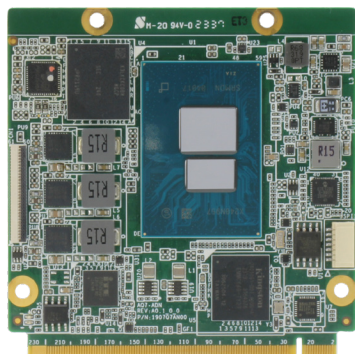


AQ7-ADN

Qseven CPU Module with Intel Atom® X Series/N-series/Core™ i3-N305 processor



Features

- Intel Atom® X Series/N-series/Core™ i3-N305, Max TDP 15W
- Onboard LPDDR5x, up to 8GB
- Realtek RTL8111H-CG 1GbE x 1
- SATA 6Gb/s x 1
- USB 2.0 x 6, USB 3.2 x 2
- PCIe [x1] x 4
- DC +5V
- Qseven Module Size, 70mm x 70mm



Distributed by:



Specifications

System	
Form Factor	Qseven Module
CPU	Intel Atom® X Series/N-series/Core™ i3-N305 CPU Intel® Core™ i3-N305 (8C, up to 3.8 GHz, 15W) Intel Atom® x7425E (4C, up to 3.4 GHz, 12W) Intel® Processor N200 (4C, up to 3.7 GHz, 6W) Intel® Processor N97 (4C, up to 3.6 GHz, 12W) Intel® Processor N50 (2C, up to 3.4 GHz, 6W)
Chipset	Integrated with Intel® SoC
Memory	LPDDR5x up to 4800MT/s, 8GB
Onboard Storage	eMMC up to 64GB
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	2.76" x 2.76" (70mm x 70mm)
Security	TPM 2.0 (Optional)
Power	
Power Requirement	+5V +/- 50mV, +3Vrtc
Power Type	AT (default) / ATX, switch by BIOS
Power Consumption (Typical)	Intel® Core™ i3-N305, LPDDR5x 8GB x1, 4.5A@ +5V
Display	
Graphics Controller	Intel® UHD Graphics
Video Output	Dual Display: DP x 1 eDP or LVDS x 1 (Change by BOM)
I/O	
Ethernet	Realtek RTL8111H-CG 1GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 6, USB 3.2 x 2
Serial Port	4-Wire UART x 1 (Tx/Rx/CSR/RTS)
HDD Interface	SATA III x 1
Expansion	PCIe [x1] x 4 4-lane MIPI-CSI x 1
GPIO	8-bit (Change by BOM)
SMBus/I2C	I2C x 1, SMBus x 1
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing

EMC	CE/FCC Class A
OS Support	Windows® 10 (64-bit) Linux Ubuntu 22.04.x/Kernel 5.19.0
Weight	0.26 lb. (0.12Kg)

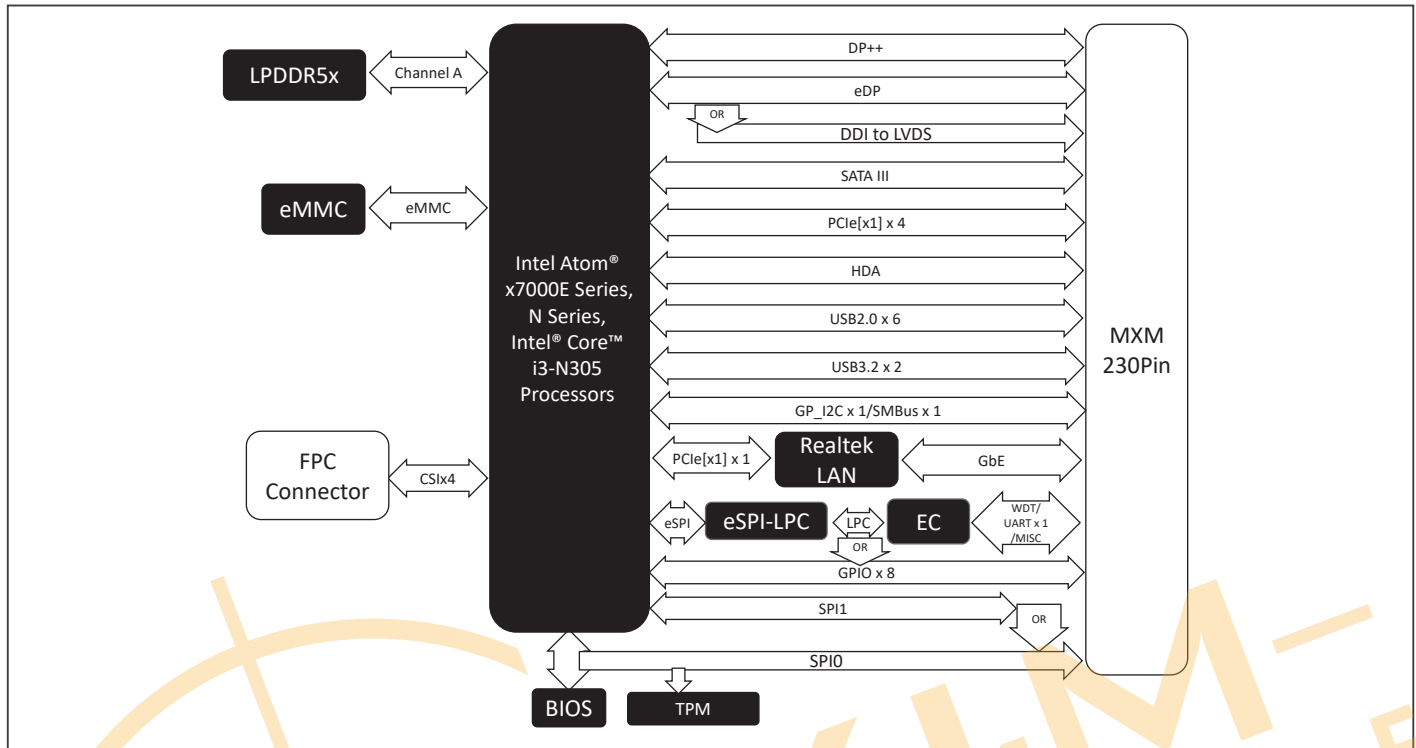
Packing List

- AQ7-ADN

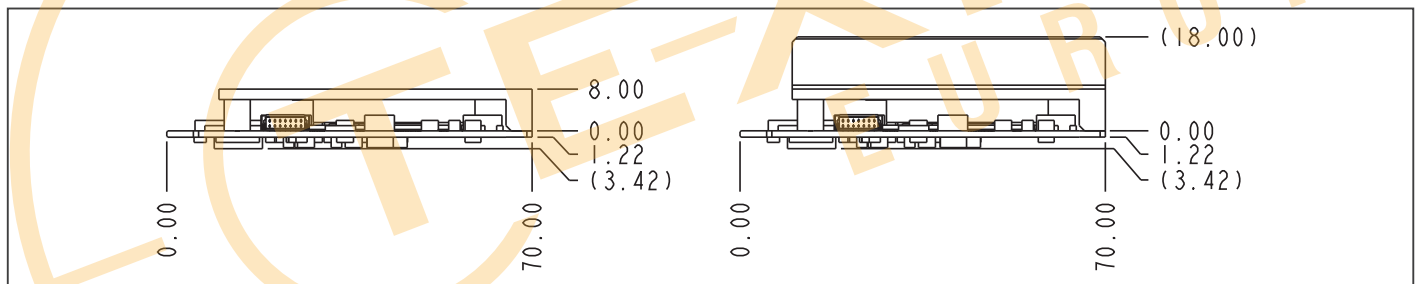
Optional Accessories

Part Number	Description
ECB-970G-A10-0001	COM Qseven Carrier Board. 2USB3, 2SATA, GbE, PCIe. AT/ATX. Rev A1.0
AQ7-ADN-FAN01	Cooler.60 x 70 x 19.1mm.4pin

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	LVDS	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
AQ7-ADN-A10-0001	Qseven 2.1	Intel Core™ Processor i3-N305	LPDDR5x 8GB	—	DP x 1	LVDS x 1	eMMC 64GB	RTL8111H-CG 1GbE x 1	USB 2.0 x 6 USB3.2 x 2	4-Wire UART	PCIe [x1]x4 4-lane MIPI-CSI x 1	5V	0~60°C	I2C, SMBus, LPC, SPI0
AQ7-ADN-A10-0003	Qseven 2.1	Intel® Processor N97	LPDDR5x 8GB	—	DP x 1	LVDS x 1	eMMC 64GB	RTL8111H-CG 1GbE x 1	USB 2.0 x 6 USB3.2 x 2	4-Wire UART	PCIe [x1]x4 4-lane MIPI-CSI x 1	5V	0~60°C	I2C, SMBus, LPC, SPI0
AQ7-ADN-A10-0004	Qseven 2.1	Intel® Processor N50	LPDDR5x 4GB	—	DP x 1, eDP x 1	—	eMMC 32GB	RTL8111H-CG 1GbE x 1	USB 2.0 x 6 USB3.2 x 2	4-Wire UART	PCIe [x1]x4 4-lane MIPI-CSI x 1	5V	0~60°C	I2C, SMBus, GPIO 8-bit, SPI1
AQ7-ADN-A10-0005	Qseven 2.1	Intel Atom® Processor x7425E	LPDDR5x 8GB	—	DP x 1	LVDS x 1	eMMC 64GB	RTL8111H-CG 1GbE x 1	USB 2.0 x 6 USB3.2 x 2	4-Wire UART	PCIe [x1]x4 4-lane MIPI-CSI x 1	5V	0~60°C	I2C, SMBus, LPC, SPI0

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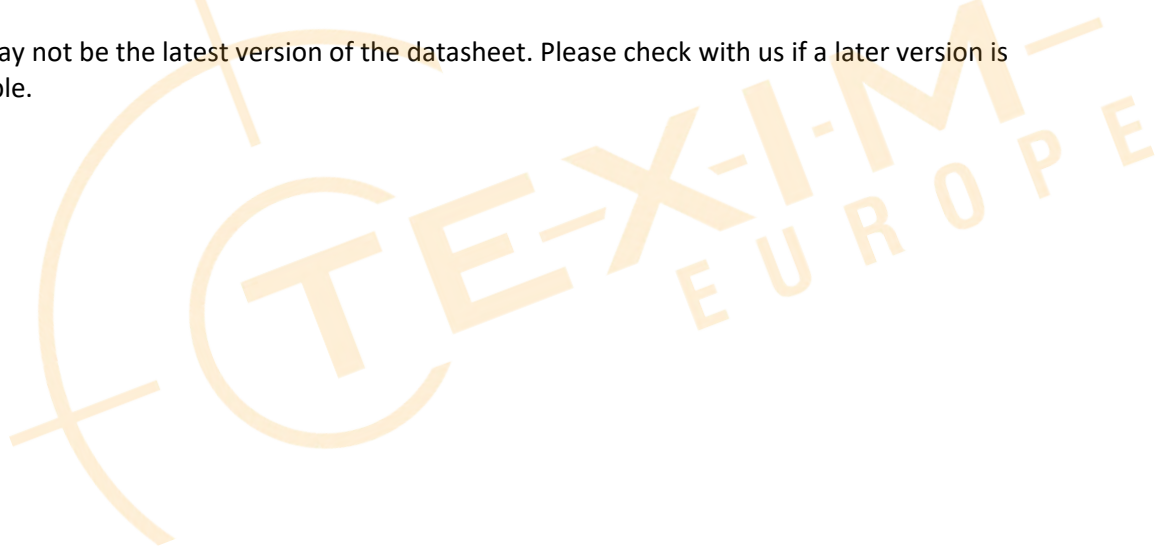
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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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