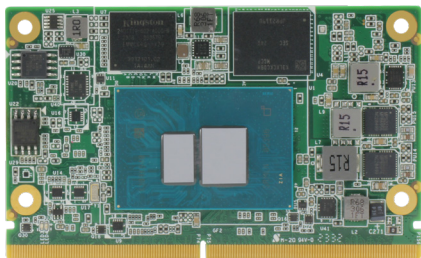




uCOM-ADN

SMARC Module with Intel Atom® Processor X Series, Intel® Processor N-series, & Intel® Core™ i3-N305 Processor



Features

- LPDDR5x x 1, up to 8GB
- eMMC, up to 64GB
- DP++ x 2, eDP x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 6
- PCIe Gen 3 [x1] x 3, max 1x PCIe[x2]
- Intel® Ethernet Controller I226-V/IT x 2
- 5V input
- SMARC Module size 82mm x 50mm



1000



USB 3.2



USB 2.0



DDR 5



Distributed by:



www.texim-europe.com

Specifications

System	
Form Factor	SMARC Module
CPU	Intel® Core™ i3-N305 Processor (8C/8T, 1.8 GHz, 15W) Intel Atom® x7425E Processor (4C, up to 1.5 GHz, 12W) Intel® Processor N97 (4C, up to 2.0 GHz, 12W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5x 4800MHz, up to 8GB
Storage	eMMC, up to 64GB
BIOS	AMI UEFI
MTBF (Hours)	2,614,335
Wake On LAN	Yes
Watchdog Timer	255 Levels
Real Time Clock	RTC x 1
Boot Select	Module eMMC Flash
Security	TPM 2.0
Display	
Graphics Controller	Intel® UHD Graphics
Video Output	Display: DP++ x 2, up to 3840 x 2160 eDP x 1, up to 3840 x 2160
I/O Interfaces	
Ethernet	Intel® Ethernet Controller I226-V/IT 2.5GbE x 2
USB	USB 2.0 x 6, USB 3.2 x 2
Serial Port	2-Wire UART x 2 (Tx/Rx) 4-Wire UART x 2 (Tx/Rx/RTS/CTS)
Audio	High Definition Audio Interface
PCIe	PCIe Gen 3 [x1] x 3 (Max PCIe [x2] x 1)
CANBus	—
MIPI-CSI	MIPI CSI x 2
GPIO	7-bit (up to 14-bit by customization)
Other Interfaces	SATA 6Gb/s x 1 GP_I2C x 1 SMBus x 1
Power	
Power Requirement	+5V for ATX / AT
Power Consumption	Intel® Core™ i3-N305, 4.23A @+5V

Environmental And Mechanical

Dimensions	3.23" x 1.97" (82mm x 50mm)
Weight	0.14 lb. (0.06Kg)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C) -40°F ~ 185°F (-40°C ~ 85°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A
OS Support	Windows® 10 (64-bit) / Windows 11(enterprise) Linux Ubuntu 22.04.2/Kernel 5.19
Support Protocol	—

Packing List

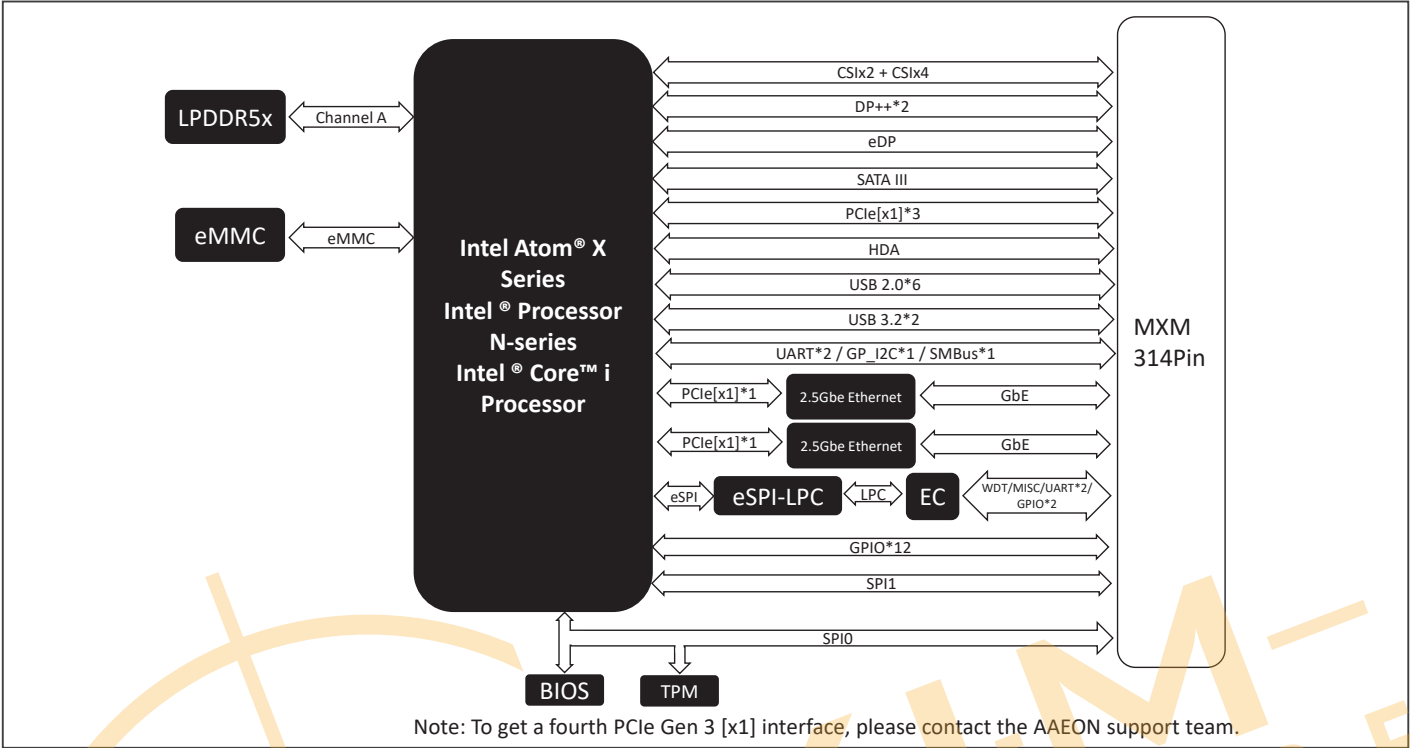
- uCOM-ADN

Optional Accessories

Part Number	Description
uCOM-ADN-FAN01	Cooler.82*42*16mm.4pin
ECB-960T-A15-0001	SMARC Carrier.2DP.LCD.2LAN.6USB.SATA.4COM.PCIe.HDA.12V.A1.5 for x86
UCOM-ADN-HSP01	Heat Spreader.82x42x6mm.Black

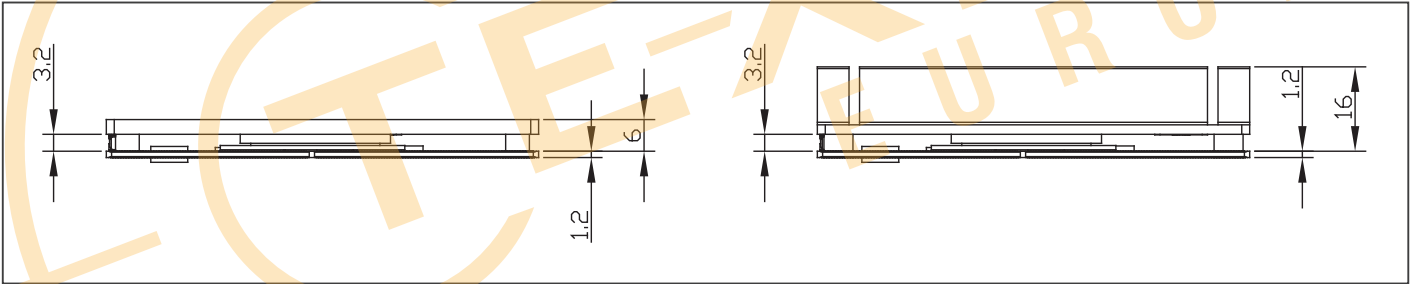


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	Form Factor	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
uCOM-ADN-B10-0001	SMARC	Intel Core™ Processor i3-N305	8GB LPDDR5x	—	eDP x 1 DP++ x 2	64GB eMMC	Intel® Ethernet Controller I226-V x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-20°C ~ 70°C	LPC, GPIO 7-bit, I2C, SMBus
uCOM-ADN-B10-0002	SMARC	Intel® Processor N97	8GB LPDDR5x	—	eDP x 1 DP++ x 2	32GB eMMC	Intel® Ethernet Controller I226-V x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-20°C ~ 70°C	LPC, GPIO 7-bit, I2C, SMBus
uCOM-ADN2-B10-0003	SMARC	Intel Atom® Processor x7425E	8GB LPDDR5x	—	eDP x 1 DP++ x 2	64GB eMMC	Intel® Ethernet Controller I226-IT x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-40°C ~ 85°C	LPC, GPIO 7-bit, I2C, SMBus

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Texim Europe B.V. its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Texim"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Texim makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

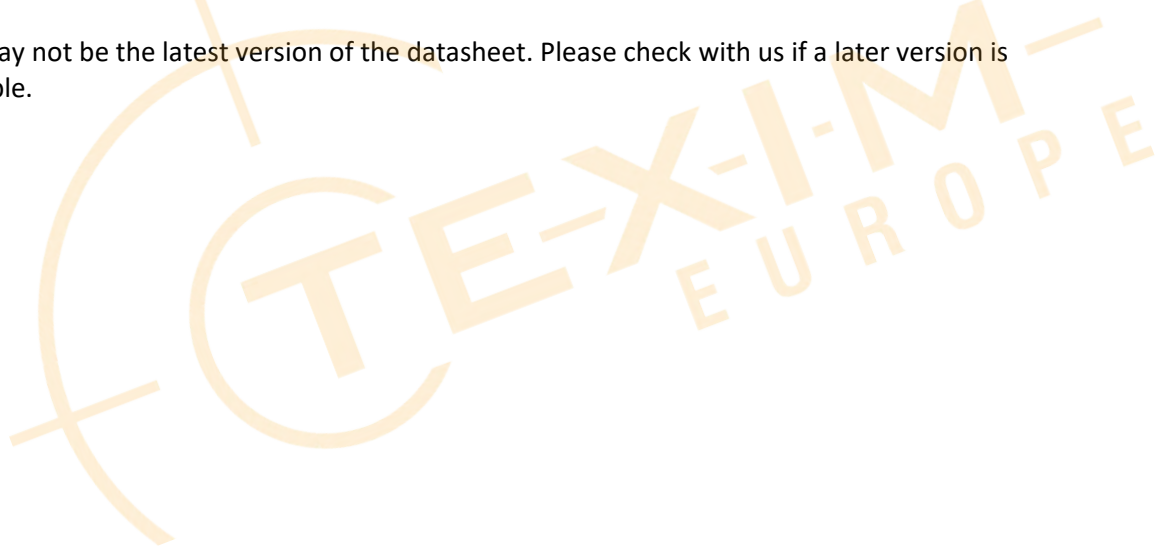
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com