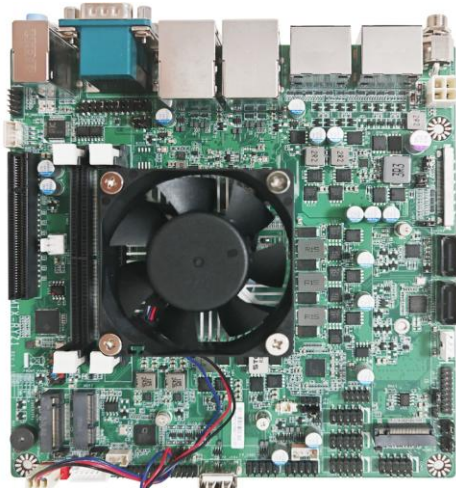


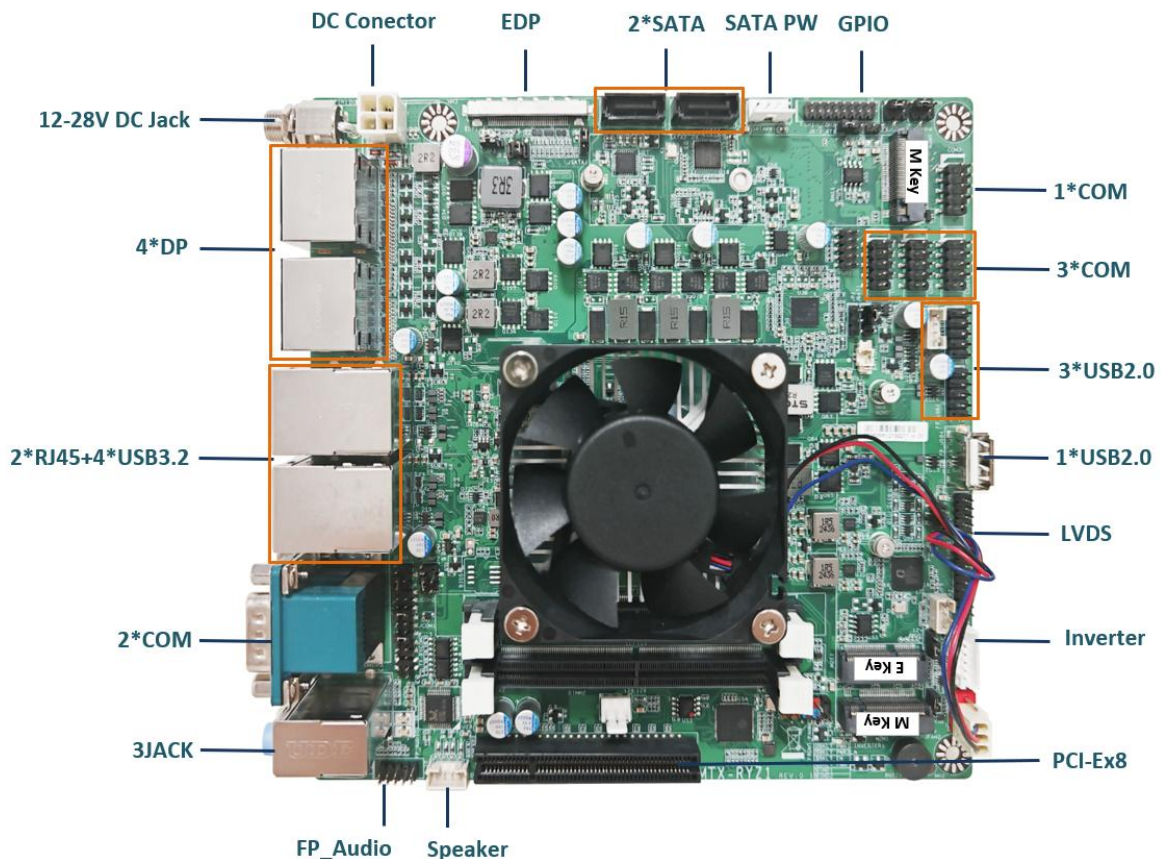


# MTX-RYZ1 Series

AMD™ RYZEN™ 5 Pro/ 7 Pro Embedded 8000-Series CPU, DDR5 up to 96GB



1. AMD™ RYZEN™ 5 Pro / 7 Pro Core™ Processor
2. Support ECC/non-ECC SO-DIMM 2\*DDR5 5600MHz, up to 96GB
4. Realtek® HD Audio ALC897
5. 2\*Intel® I226-V 2.5GbE
6. Support 2\* SATA III (6Gb/s)
7. Support 4\*DP(DP0 Co-lay EDP, DP1 Co-lay LVDS)
8. 1\*PCI-Ex8 slot (Gen4)
9. 2\* RS232/422/485 + 4\*RS232
10. 4\*USB3.2(Gen1) and 6\*USB2.0
11. 1\*M.2 E key 、 2\*M.2 M key (PCI-Ex4)
12. Support TPM2.0
13. 12~28V DC in
14. MINI ITX Form Factor (170 \*170 mm)



## Specifications

<b>Form Factor</b>	
Dimensions	- MINI ITX ( 170 * 170mm)
<b>Processor System</b>	
CPU	- AMD® Ryzen™ Embedded 8000 Series Processors, TDP up to 54W - AMD® Ryzen™ Embedded 8845HS, 8C/16T, 8MB Cache, 3.8GHz (5.1GHz), 45W (35-54W) - AMD® Ryzen™ Embedded 8645HS, 6C/12T, 6MB Cache, 4.3GHz (5.0GHz), 45W (35-54W) - AMD® Ryzen™ Embedded 8840U, 8C/16T, 8MB Cache, 3.3GHz (5.1GHz), 28W (15-30W) - AMD® Ryzen™ Embedded 8640U, 6C/12T, 6MB Cache, 3.5GHz (4.9GHz), 28W (15-30W)
Chipset	- SoC
TPM2.0	-Support dTPM2.0 Function
BIOS	- AMI 256M Flash ROM
<b>Expansion Slot</b>	
M.2 M key	- 2(2242/2280, PCI-Ex4 Interface )
M.2 E key	- 1(2230, Support WIFI/BT Module, PCI-Ex1 +USB2.0 Interface)
SATA	- 2(SATAIII, SATA1 Support SATA DOM)
PCI-e	- 1*PCI-E x8 slot (Gen.4)
<b>Memory</b>	
Technology	- DDR5 ECC/non-ECC 5600 MHz DRAM
Max.	- 96GB
Socket	- 2* SO-DIMM
<b>Graphics</b>	
Controller	- AMD™ Radeon RDNA3 Core Architecture
VRAM	- Shared Memory
Display Port2.1	- 4 (Max Resolution : 3840x2160@120Hz)
eDP1.5	- 1 (Max Resolution : 3840x2160@120Hz, Co-lay DP0, Factory Option)
LVDS	- 1 (Max Resolution : 2560x1600@60Hz, Co-lay DP1, Factory Option)
Multi Display	- 4
<b>Ethernet</b>	
Ethernet	- 100/1000/2500 Mbps
Controller	- Intel® I226-V 2.5GbE
Connector	- 2 * RJ45
<b>Audio</b>	
CODEC	- HD Audio : Realtek® HD Audio
Amplifier	- 3W Speaker
<b>SATA</b>	

Max Data Transfer Rate	- 2 * SATAIII (6.0Gb/s)
<b>Rear I/O</b>	
Display Port	- 4
Ethernet	- 2
USB	- 4 *USB 3.2(Gen1)
COM	- 2 *RS232/422/485
3Jack	- 1
DC Jack	- 1(12~28V DC in)
<b>Internal Connector</b>	
USB	- 6* USB2.0 (4*PH2.54+1*PH2.0+1*TYPE A)
Serial	- 4*RS232
SATA	- 2* SATAIII (6.0Gb/s, SATA1 Support SATA DOM)
M.2	- 3 (2*M key +1*E key)
GPIO	- 1 (16 bit, 5V)
AT mode / Case Open	- 1
I2C/SMBUS	- 1
Speaker	- 1
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (10sec ~ 255min)
<b>Power Requirements</b>	
Input PWR	- 12-28V DC in
Power On	AT/ATX Supported - AT : Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
<b>Certifications</b>	
Certifications	- CE, FCC, RoHS, REACH
<b>Environment</b>	
Temperature	- Operating: 0°C ~ 60°C
	- Storage: -20°C ~ 70°C
<b>Warranty</b>	
Warranty	- 2 Years Limited Warranty

\*Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

## Optional Accessories

Parts Number	Description
-----	MTX-RYZ1 Series

G01-SATA-BK-B-2F *1	SATA Cable 45cm BLACK w/LOCK 純銅鍍金 3U
G01-COM9-30A-2F *2	COM9 杜 2*5P 1/2 K=10 L=300mm P2.54 焊點上膠

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