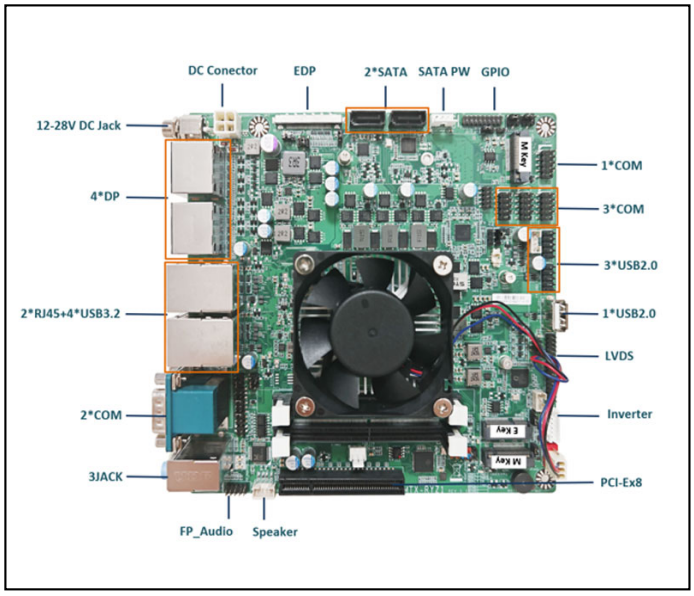
MTX-RYZ1

Mini-ITX

AMD Ryzen™ 7 PRO 8845HS Embedded Industrial Motherboard with DDR5 up to 96GB, Dual 2.5GbE LAN, and Quad Display Support



Features

- **Powered by AMD Ryzen™ 7 PRO 8845HS Processor, 3.8GHz, 8 Cores, for high-performance industrial embedded computing**
- **Supports 2 x DDR5 5600MHz ECC/non-ECC SO-DIMM, up to 96GB**
- **Realtek® ALC897 High Definition Audio Codec**
- **2 x Intel® I226-V 2.5GbE LAN for high-speed industrial networking**
- **2 x SATA III (6Gb/s) interfaces for industrial storage expansion**
- **Supports up to 4 display outputs via DisplayPort (DP0 co-layout with eDP, DP1 co-layout with LVDS)**
- **1 x PCIe x8 (Gen4) expansion slot**
- **2 x RS232/422/485 + 4 x RS232 serial ports for industrial device connectivity**

Packing List

PART NUMBER	DESCRIPTION	QTY
Part Number	Description	QTY per Board
—	MTX-RYZ1-884500A1 / MTX-RYZ1-884502A1(TPM2.0)	1
G01-SATA-BK-B-2F	SATA Cable 45cm BLACK w/LOCK	1
G01-COM9-30A-2F	COM9 2 x 5P 1/2 K=10 L=300mm P2.54	2

Specifications

SYSTEM	
MB FORM FACTOR	Mini-ITX
CPU	AMD™ RYZEN Core™ 8000 Series Processor (7 Pro 8845HS 8C, 3.8GHz,TDP 45W)
CHIPSET	Intel® SoC
MEMORY	2 x DDR5 5600MT/s, Dual Channel SO-DIMM, up to 96GB, ECC Supported
BIOS	AMI 256Mb Flash ROM
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM) & TPM 2.0 (dTPM)
DIMENSION (W X D)	170.0 (W) x 170.0 (D) mm (6.7" x 6.7")
OS SUPPORT	Windows® 11 (64bit)
POWER	
POWER REQUIREMENT	DC-in 12~28V
POWER ON MODE	AT / ATX
CONNECTOR	DC Jack
DISPLAY	
GPU	AMD™ Radeon RDNA3 Core Architecture, Shared Memory
LVDS	1 x LVDS (Max. Resolution: 2560 x 1600 @60Hz, co-layout DP, Option)
eDP	1 x eDP1.5 (Max Resolution: 3840 x 2160 @120Hz, co-layout with DP, Option)
DP	4 x DP2.1 (Max Resolution: 3840 x 2160@120Hz)
MULTIPLE DISPLAY	Support 4 Displays
AUDIO	
CODEC	Realtek® HD Audio
Line-in	1 x Audio Jack for Line-in
Line-out	1 x Audio Jack for Line-out
MIC-in	1 x Audio Jack for MIC-in
AMPLIFIER	3W
LAN	
ETHERNET	2 x RJ45 for Intel® I226-V 2.5GbE
USB PORT	
USB	Internal Header for 6 x USB 2.0 4 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1)
SERIAL PORT	
COM	Internal Header for 4 x RS-232 2 x DB-9 for RS-232/422/485
INTERNAL I/O	
GPIO	16-Bit
SMBUS	Yes
I2C	Yes
ADDITIONAL	1 x Case Open
STORAGE	
SATA	2 x SATA III 1 x SATA Power Connector
EXPANSION	
PCIe	1 x PCIe x8
M.2	1 x E-Key 2230 (USB 2.0/PCIe x1) for Wi-Fi/BT Module 2 x M-Key 2242/2280 (PCIe x4)
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 70°C (-4°F ~ 158°F)
CERTIFICATION	CE/FCC Class A
ESG DECLARATION	EU RoHS, China RoHS, REACH

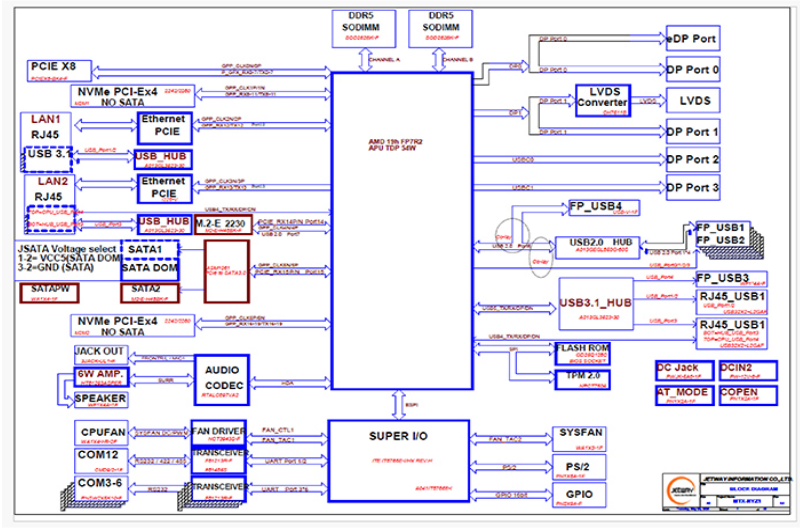
Headquarter
support_team@jetway.com.tw
+886-2-89132711

USA
sales@jetwaycomputer.com
+1-510-857-0130

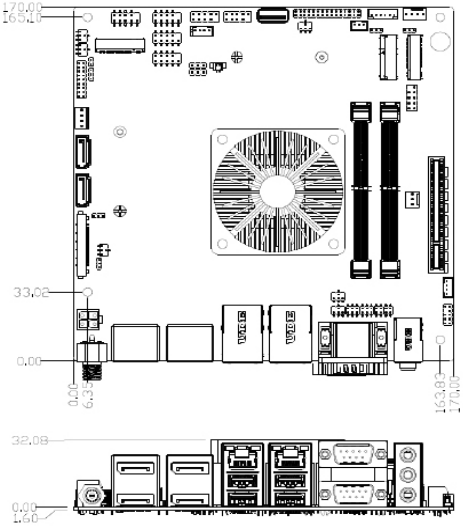
China
support_team@jetway.com.tw
+86-769-2101-8010

Note: All specifications are subject to change without notice.

Block Diagram



Dimension Unit: mm



Ordering Information

PART NUMBER	MTX-RYZ1-884500A1	MTX-RYZ1-884502A1
CPU	AMD Ryzen 8000 Series Processor	AMD Ryzen 8000 Series Processor
SECURITY	Intel® PTT (Integrated TPM)	TPM 2.0 (dTPM)

Headquarter
support_team@jetway.com.tw
+886-2-89132711
USA
sales@jetwaycomputer.com
+1-510-857-0130
China
support_team@jetway.com.tw
+86-769-2101-8010
Note: All specifications are subject to change without notice.