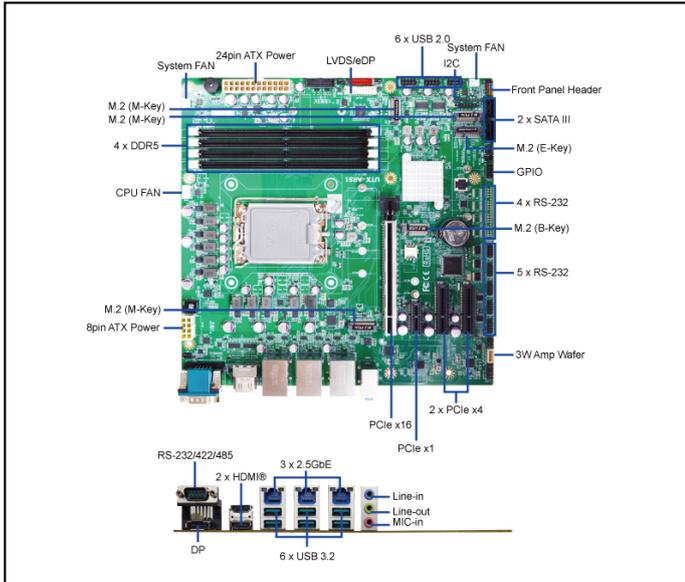


Micro-ATX Industrial Motherboard Supporting Intel® Core Ultra Processors (Series 2), Socket LGA1851



Features

- Powered by Intel®LGA1851 Core Ultra Series 2 Socket Processor (Formerly Arrow Lake-S, MAX. TDP 125W)
- Robust Memory: 4 x DDR5 6400 MT/s CU-DIMM, up to 256GB
- Versatile Display Options: Supports 2 x 4K HDMI® 2.1 TMDS, 1 x 4K DP, and LVDS co-layout eDP
- Storage Expansion: 3 x M.2 M-Key, 2 x SATA III with Intel® VMD RAID 0, 1, 5
- Additional Expansion: 1 x M.2 E-Key, 1 x M.2 B-Key, 1 x PCIe Gen 5 x16, 2 x PCIe Gen 4 x4, 1 x PCIe Gen 4 x1
- Triple Ethernet Ports: 3 x 2.5GbE for fast and reliable networking
- Comprehensive I/O: 6 x USB 3.2 Gen.2, 6 x USB 2.0, 10 x COM ports

Packing List

PART NUMBER	DESCRIPTION	QTY
UTX-ARS1	UTX-ARS1 Mother Board	
G01-COM-H2M22-1F	COM Cable	
G01-SATA3-BL-1F	SATA Cable, 50cm	
F04-MB-090-F	I/O Shield	
F01-SPBK-1F	Jumper	

Specifications

SYSTEM	
MB FORM FACTOR	Micro-ATX
CPU	Intel® LGA1851 Socket, Processor Arrow Lake-S (MAX. TDP 125W) For additional compatible CPUs, please contact regional sales
CHIPSET	Intel® W880
MEMORY	4 x DDR5 6400MT/s, Dual Channel CU-DIMM, up to 256GB, ECC Supported
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM) TPM2.0 (dTPM, Optional)
RTC BATTERY	Lithium Battery
DIMENSION (W X D)	244.0 (W) x 244.0(D) mm (9.6" x 9.6")
OS SUPPORT	Windows® 11 (64bit) Linux
POWER	
POWER REQUIREMENT	ATX Power Supply
POWER ON MODE	AT / ATX (Default) Mode
CONNECTOR	Internal 24+8-pin ATX Header
DISPLAY	
GPU	Intel® Graphics
LVDS	1 x 24-bit Dual Channel LVDS (Max. Resolution: 1920 x 1200 @60Hz, Co-lay eDP)
DP	1 x DP1.4a (Max Resolution: 4096 x 2304@60Hz)
HDMI®	2 x HDMI® 2.1 TMDS (Max Resolution: 3840 x 2160@60Hz)
MULTIPLE DISPLAY	Support 4 Displays
AUDIO	
CODEC	Realtek Audio Codec
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	1 x RJ45 for Intel® I226-V 2.5GbE 1 x RJ45 for Intel® I226-LM 2.5GbE 1 x RJ45 for Realtek® RTL8156 2.5 GbE
USB PORT	
USB	6 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) Internal Header for 2 x USB 3.2 Gen 1 Internal Header for 6 x USB 2.0
SERIAL PORT	
COM	1 x DB-9 for RS-232/422/485 Internal Header for 5 x DB-9 for RS-232 4x Internal Header for RS-232 (Optional)
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
I2C	Yes
FAN	1 x CPU Fan Header 2 x System Fan Header
FRONT PANEL	HDD Active LED Power LED Power On/Off Reset
ADDITIONAL	1 x Chassis intrusion 1 x AT/ATX Mode Selection
STORAGE	
SATA	2 x SATA III
RAID	Intel® VMD RAID 0, 1, 5
EXPANSION	
M.2	1 x M-Key 2242/2260/2280/22110 (PCIe Gen.4x4) Support NVMe 1 x M-key 2280 (SATA/PCIe Gen.4x4) support NVMe 1 x M-Key 2280 (PCIe Gen.4x4) support NVMe 1 x B-Key 3042 (USB2.0/USB3.2 Gen.1) 1 x E-Key 2230 (USB 2.0/PCIe Gen.4 x1)
PCIe	1 x PCIe Gen.5 x16 2 x PCIe Gen.4 x4 1 x PCIe Gen.4 x1
SIM	1 x Nano SIM Card Slot
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F)

