



INDUSTRIAL MOTHERBOARD

CT-MCL01

MicroATX Industrial Motherboard with LGA 1151 Socket supporting 8th/9th Gen Intel® Core™ i3/i5/i7 Processor, Q370



Features

- Support 8th/9th Gen. Intel® CFL-R S Processor (LGA 1151, 95W/65W/35W TDP)
- Intel® Q370 chipset
- 4x 288-pin DDR4 DIMM. Max. up to 128GB
- 2x Intel® GbE (Support Wake-on-LAN and PXE)
- Triple independent display supported by 1x VGA, 1x DVI-D, and 2x DisplayPort (DP1.2)
- 1x PCIe x16 (Gen3), 2x PCIe x4 (Gen3), 1x PCIe x1 (Gen3)
- 1x M.2 (M Key, NVMe PCIe x4, SATA, 2242/2260/2280); 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)
- 2x RS-232/422/485, 4x USB 3.1 Gen 1 Internal header: 1x USB 3.1 Gen 1, 7x USB 2.0, 4x RS-232
- 6x SATA 6.0Gb/s
- Intel® AMT 12.0 Supported
- TPM 2.0 Supported

Specifications

System		Power Mode	ATX Power
Processor		Power Connector	2x12-pin and 2x2-pin power connector
Support 8th/9th Gen Intel® Core™ CFL-R S Processor (LGA 1151, 95W/65W/35W TDP)		Mechanical & Environment	
- Intel® Core™ i7-9700E, i7-9700TE, i7-8700T, i7-8700		Form Factor	MicroATX
- Intel® Core™ i5-9500E, i5-9500TE, i5-8500T, i5-8500		Operating Temperature	0 °C ~ 60 °C
- Intel® Core™ i3-9100E, i3-9100TE, i3-8100T, i3-8100		Storage Temperature	-40 °C ~ 85 °C
- Intel® Pentium® G5400T, G5400		Relative Humidity	10% ~ 90% relative humidity, non-condensing
- Intel® Celeron® G4900T, G4900		Physical	
System Chipset	Intel® Q370 PCH	Dimensions	244mm x 244mm
LAN Chipset	GbE1: Intel® I219LM (Support Wake-on-LAN and PXE) GbE2: Intel® I225-V (Support Wake-on-LAN and PXE)	Available Models	
Audio Codec	Realtek ALC888S HD Audio Codec	• CT-MCL01-MB	
System Memory	4x 288-Pin DDR4 2133/2400/2666MHz DIMM. 128 GB Max	MicroATX Industrial Motherboard With LGA 1151 Socket Supporting 8th/9th Gen Intel® Core™ i3/i5/i7 Processor, Q370	
Graphics	Intel® Integrated Graphics	Packing List	
BIOS	AMI uEFI 256MB SPI flash	1x CT-MCL01	
Watchdog	Software Programmable Supports 1~255 sec. System Reset	1x SATA cable	
iAMT	Intel® AMT 12.0 supported	1x I/O port bracket	
TPM	TPM 2.0	US Exports And Tariff Codes	
Display		ECCN	5A992.c
Display Port	2x DP (DP 1.2)	HTS	8504.90.2000
DVI	1x DVI	ScheduleB	8473.30.0002
Multiple Display	Triple Display		
VGA	1x VGA		
Storage			
M.2	1x M.2 M / NVMe PCIe x 4 / SATA / 2242, 2260, 2280 1x M.2 E / PCIe x2 / USB 2.0 / 2230		
SATA	6x SATA 6.0 Gb/s		
Expansion			
PCIe	1x PCIe x16 (Gen3) 2x PCIe x4 (Gen3) 1x PCIe x1 (Gen3)		
I/O			
Audio	1x Mic-in, 1x Line-in, 1x Line-out		
COM	2x RS-232/422/485		
LAN	2x RJ45		
USB	4x USB 3.1 Gen 1 (5 Gbps)		
Internal I/O			
Audio	1x Front panel audio		
COM	4x RS-232		
DIO	1x 8-bit DIO (4-in/4-out)		
SATA	6 x SATA 6.0Gb/s		
USB	1x USB 3.1 Gen 1, 7x USB 2.0		
Others	1x SPI header 1x LPC 1x Front panel 1x CPU fan 2x System fan		
Operating System			
Windows	Windows 10		
Linux	Linux Kernel 5.X		
Power			
Power Management	ACPI 5.0 compliant		

* All specifications and photos are subject to change without notice.