

# CT-MCL01

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



## FEATURES

- Support 8<sup>th</sup>/9<sup>th</sup> Gen. Intel® CFL-R S Processor (LGA 1151, 95W/65W/35W TDP)
- Intel® Q370 chipset
- 4x 288-pin DDR4 DIMM. Max. up to 64GB
- 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 RS-232, 4x USB 3.2 Gen 2 (10Gbps), 1x USB 3.2 Gen 1, 7x USB 2.0
- 6x SATA 6.0Gb/s
- Intel® AMT 12.0 Supported
- TPM 2.0 Supported

## SPECIFICATIONS

System	
Processor	Support 8 <sup>th</sup> /9 <sup>th</sup> Gen Intel® CFL-R S Processor (LGA 1151, 95W/65W/35W TDP) - Intel® Core™ i7-9700E, i7-9700TE, i7-8700T, i7-8700 - Intel® Core™ i5-9500E, i5-9500TE, i5-8500T, i5-8500 - Intel® Core™ i3-9100E, i3-9100TE, i3-8100T, i3-8100 - Intel® Pentium® G5400T, G5400 - Intel® Celeron® G4900T, G4900
System Chipset	Intel® Q370 PCH
LAN Chipset	GbE1: Intel® I219LM (Support Wake-on-LAN and PXE) GbE2: Intel® I210-AT (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S HD Audio Codec
Memory	4x 288-Pin DDR4 2133/2400/2666MHz DIMM
Max. Size	64GB
BIOS	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM2.0 supported (optional)
iAMT	Intel® AMT 12.0 supported
Display	
Chipset	Intel® Integrated Graphics
Interface	1x VGA, 1x DVI-D, 2x DisplayPort (DP 1.2)
Multiple Display	Triple Display
Expansion	
PCI Express	1x PCIe x16 (Gen3) 2x PCIe x4 (Gen3) 1x PCIe x1 (Gen3)
M.2	1x M.2 M / NVMe PCIe x 4 / SATA / 2242, 2260, 2280 1x M.2 E / PCIe x2 / USB 2.0 / 2230
Rear I/O	
Display	1x VGA, 1x DVI-D, 2x DisplayPort (DP 1.2)
COM	2x RS-232/422/485
USB	4x USB 3.2 Gen 2 (10 Gbps)
LAN	2x RJ45
Audio	1x Line-in, 1x Line-out, 1x Mic-in
Internal I/O	
COM	4x RS-232
USB	1x USB 3.2 Gen 1, 7x USB 2.0
SATA	6 x SATA 6.0Gb/s
Audio	1x Front panel audio
DIO	1x 8-bit DIO (4-in/4-out)
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 Connector	2x12-pin and 2x2-pin power connector
Power Input	ATX power
Management	ACPI 5.0 compliant
Mechanical & Environment	
Form Factor	MicroATX
Dimension	244mm x 244mm
Operating Temp.	0°C ~ 60°C
Storage Temp.	-40°C ~ 85°C
Relative Humidity	10% ~ 90% relative humidity, non-condensing
ORDERING INFORMATION	
Packing List	
<ul style="list-style-type: none"> <li>• 1x SATA cable</li> <li>• 1x I/O port bracket</li> </ul>	
Ordering Information	
MODEL NO.	DESCRIPTION
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\* All specifications and photos are subject to change without notice.