



INDUSTRIAL MOTHERBOARD

CT-MSL01

MicroATX Industrial Motherboard with LGA 1151 Socket for 6th Gen. Intel® Core™ Processor, Q170 PCH



Features

- Supports Intel® 6th/7th Gen Intel Core™ processor (LGA1151) with Intel Q170 PCH
- 4x DDR4 DIMM support total up to 64GB
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- DVI-D/DisplayPort//HDMI/VGA
- 1x PCIe x16, 1x PCIe x4, 1x PCIe x1, 1x PCI, 1x Mini-PCIe
- 1x M.2, and 4x SATA 6.0Gb/s
- 6x COM port, 6x USB 3.0, 6x USB 2.0
- 1x 8-bit GPIO
- Supports Intel® AMT 11.0
- Supports TPM 2.0 (optional)



Specifications

System	
Processor	LGA 1151 socket supporting 6th/7th Gen Intel Core i3/i5/i7 Pentium®, Celeron® Desktop Processor
System Chipset	Q170
LAN Chipset	1x Intel® I219LM GbE PHY 1x Intel® I211AT GbE controller (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC892 HD Audio Codec
System Memory	4x 288-Pin DDR4 1866/2133MHz DIMM, Max. 64GB
Graphics	Intel® 9th Gen Graphic
BIOS	AMI UEFI 128MB SPI Flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
iAMT	Intel AMT 11.0
TPM	TPM 2.0 (optional)
Display	
Multiple Display	DVI-D/ DP/ HDMI / VGA
Storage	
M.2	1x M.2 Type 2280 M Key
SATA	4x SATA III (6 Gb/s)
Expansion	
Mini PCIe	1x Full-size Mini PCIe
PCI	1x PCI
PCIe	1x PCIe x16, 1x PCIe x4, 1x PCIe x1
I/O	
Audio	1x Mic-in, 1x Line-in, 1x Line-out (rear)
COM	1x RS-232/422/485 (rear) 3x RS-232 (header)
LAN	2x GbE RJ45 (rear)
USB	6x USB 3.0 (4x rear/2x header) 6x USB 2.0 (6x rear)
Others	1x PS/2 Keyboard/Mouse (header) 1x LPC/1x SPI/1x 8-bit GPIO (header) 1x CPU Fan/2x System Fan (header) 1x Front Panel Audio (header) 1x Front Panel Connector (header)
Operating System	
Windows	Windows 10, Windows 8.1, WES8.1, Windows 7, WES7
Linux	Linux kernel 4.X
Power	
Power Management	ACPI 5.0 compliant
Power Mode	ATX Power
Power Connector	2×12-pin and 2×2-pin power connector
Environment	
Operating Temperature	0 °C ~ 60 °C (32 °F ~ 140 °F)
Storage Temperature	-40 °C ~ 80 °C (-40 °F ~ 176 °F)
Relative Humidity	10% ~ 90% relative humidity, non-condensing
Certification	CE, FCC Class A
Physical	
Dimensions	244 x 244 mm (9.6" x 9.6")

Compliances and Standards

Shock	IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Vibration	IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Operating Temperature	0 °C ~ 60 °C (32 °F ~ 140 °F) IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMI	• FCC Class A (47 CFR part 15.109 and part 15.107) • CE • ICES-003 • UKCA

Available Models

Model No.	Description
CT-MSL01	MicroATX Industrial Motherboard With LGA 1151 Socket For 6th Gen. Intel® Core™ Processor, Q170 PCH

Packing List

1x CT-MSL01 MicroATX Motherboard
1x SATA Cable
1x COM Cable
1x I/O Bracket
1x Driver DVD

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002

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