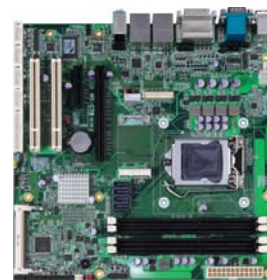


Industrial Single Board Computer

Micro ATX Motherboard

MS-C78

Support 4th Generation Intel® Core™ i7, Core™ i5, Core™ i3, Celeron and Pentium CPU with Onboard VGA, DVI, LVDS, Display port, HD Audio, Serial ATAIII, USB3.0 & 2.0, Gigabit LAN, PCIE X16, mSATA



Form Factor	Micro ATX motherboard
CPU	Supports 4 th Generation Intel® Core™ i7/ i5/ i3/Celeron/Pentium Desktop Processor. Package type: FCLGA1150
Memory	Four DDR3/DDR3L (support 1.5V) 1333/1600 DIMM up to 32GB
Chipset	Intel® Q87 PCH
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Watchdog Timer	Generates a system reset with internal timer for 1min/s ~ 255min/s
Power Management	Supports ACPI 4.0 compliant
Serial ATA Interface	Intel® Q87 PCH built-in 4 x Serial ATAIII interface up to 600MB/s Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology.(not support SATA II device)
VGA Interface	Intel® Clear Video integrated HD Graphics Technology
DVI Interface	Onboard DVI connector
LVDS Interface	Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
Display port Interface	Onboard Display port connector
Audio Interface	Intel® integrated Q87 with Realtek ALC888 HD Audio.
LAN Interface	1 x Intel® I210 Gigabit LAN 1 x Intel® I217-LM Gigabit LAN
GPIO interface	Onboard programmable 8-bit Digital I/O interface.
Extended Interface	One PCIE X 16 slot & one PCIE X 4 slot, One MSATA, One Mini PCI, Two PCI slot (mSATA only Support SATAIII)
Internal I/O Port	4 x RS232, 1 x GPIO port, 1 x Audio connector, 1 x IrDA connector, 1 x SMBUS connector, 1 x CRT, 1 x LVDS, 1 x LPC, 1 x LPT, 6 x USB2.0 and 2 x USB3.0 ports, 4 x SATAIII
External I/O Port	1 x PS/2 Keyboard/Mouse Port, 1 x RS232, 1 x RS232/422/485, 1 x DVI port, 1 x Display port, 2 x RJ45 LAN ports and 4 x USB3.0 ports.
External Audio	Line-in, MIC-in, Front, Rear, Center/Subwoofer.
Power Requirement	Standard 24-pin ATX power supply (20-pin is compatible) and P4 4-pin 12V
Dimension	244mm x 244mm (L x W)
Temperature	Operating within 0~60 centigrade Storage within -20~85 centigrade

Ordering Code

MS-C78	Onboard DVI, Display Port, CRT, LVDS, 2 x Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAIII, IrDA, Realtek HD Audio, Mini PCI, PCIE x16 & x4, PCI, SMBUS, GPIO, LPC, LPT, mSATA.
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For further product information please visit the website at <http://www.commell.com.tw>

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