



mITX-4205A

Mini-ITX Embedded Motherboard with Intel® J4205 Processor, Dual Channel DDR3L memory, PCIe, 6 x COM, 5 x SATA 6Gb/s, 8 x USB

Key Features

- Mini-ITX form factor
- Intel® Pentium® Processor J4205
- Dual Channel DDR3L, 2 x SO-DIMMs
- 2 x GbE LAN ports
- 5 x SATA 6Gb/s and 1 x mSATA
- Support 1 x SATA DOM
- HDMI 1.4b, D-Sub, eDP/ LVDS ports for multiple display
- 1 x PCIe x1 (Gen2 x 1) expansion slot
- 2 x RS232/422/485/5V/12V/RI COM ports
- 4 x RS232 COM ports

Application

SPECIFICATION

Mini-ITX Embedded Motherboard with Intel® J4205 Processor, Dual Channel DDR3L memory, PCIe, 6 x COM, 5 x SATA 6Gb/s, 8 x USB

FORM FACTOR	Mini-ITX 170W x 170D(mm)
CPU	Intel® Pentium® Processor J4205 14nm, 4 cores, 4 threads, up to 2.60 GHz TDP 10W, fan-less design
SOCKET	1 x FCBGA1296
MEMORY	2 x DDR3L SO-DIMM sockets, Max. Capacity 8GB Support Dual channel DDR3L 1866 MHz memory modules
ETHERNET	2 x GbE LAN ports (Realtek® RTL8111HS)
VIDEO	Integrated Graphics Processor - Intel® HD Graphics 505: 1 x HDMI 1.4 port, supporting a maximum resolution of 3840x2160 @30Hz 1 x VGA port, supporting a maximum resolution of 1920x1200 @60Hz 1 x eDP port, supporting a maximum resolution of 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz * eDP port is alternative with LVDS port, only one can be worked at the same time (3 independent display outputs)
AUDIO	Realtek ALC269 High Definition Audio
STORAGE	5 x SATA 6Gbps (4 x from Marvell 88SE9230, support RAID/0/1/10) (1 x from J4205 supports SATA DOM)
EXPANSION SLOTS	1 x PCIe x1 (Gen2 x1) 1 x Full-size mSATA
INTERNAL I/O	1 x 4-pin ATX main power connector 5 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 2 x USB 3.0 headers 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBUS header 1 x Case open header 1 x PS/2 Keyboard/Mouse Connector

	<ul style="list-style-type: none"> 1 x Backlight Control header 1 x RAID LED header 2 x LAN LED headers 1 x Clear CMOS jumper 1 x Buzzer
REAR I/O	<ul style="list-style-type: none"> 3 x Audio jacks (Line in, Line out, Mic in) 2 x COM ports (RS-232/422/485 and RI/5V/12V) 1 x HDMI 1 x VGA 2 x RJ45 LAN ports 2 x USB 2.0 2 x USB 3.0 1 x DC Jack (+12VDC)
TPM	<ul style="list-style-type: none"> 1 x TPM Header
OS COMPATIBILITY	Windows 10 (x64)
OPERATING PROPERTIES	<ul style="list-style-type: none"> Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -20°C to 70°C Non-operating humidity: 0%-95% (non-condensing)
PACKING CONTENT	<ul style="list-style-type: none"> Bulk packing capacity: 20pcs Carton size: 550 x 451 x 330(mm)
ORDER INFORMATION	9MZAPLAINR-SI
OPTIONAL KIT	<ul style="list-style-type: none"> TPM 1.2 module: 9CMUFLNR-00 TPM 2.0 module: 9CTM000NR-00