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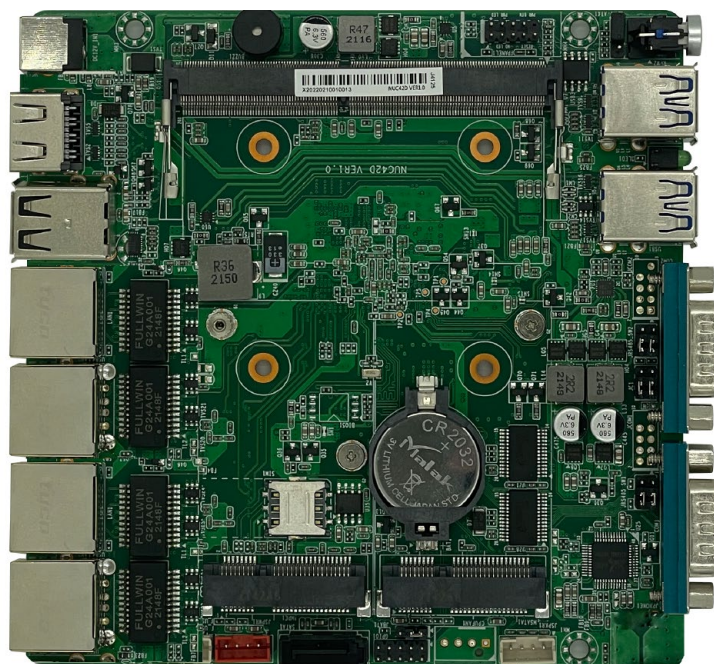
Embedded Motherboard Based on Intel Celeron J4125 Quad Core CPU

Description:

EMB-IJ4125-1242 is based on Intel Celeron J4125 processor, and supports Intel Gemini Lake-R series CPU. It can be widely used in soft routing, network security, industrial control, cloud terminal and other fields.

Main Features:

· Integrated Intel Celeron J4125 2.0GHz quad-core processor, support Intel Gemini Lake-R series CPU
· 1 x SODIMM slot, support single-channel 2400MHz DDR4 up to 8GB
· Support VGA and HDMI dual display
· Support 4 x Intel I225-V or I226-V 2.5G network
· Support 1 x Mini PCIe (WIFI/4G) and 1 x mSATA
· Support 4 x USB 3.0 and 3 x USB 2.0
· Support 2 x internal RS232 (2 x RS485 optional)
· With fanless design, it can work in a closed chassis to build a dust-proof and moisture-proof computer
· Support -20℃~60℃ operating temperature
· Support AT and ATX mode switching, 12V~19V DC power supply

Specification:

System	
CPU	Integrated Intel Celeron J4125 2.0GHz Quad Core CPU, TDP 10W Support Intel Gemini Lake-R series CPU
Memory	1 x SODIMM slot, support single-channel 2400MHz DDR4 up to 8GB
Storage	1 x 7-pin SATA3.0 hard disk interface, 6Gbps 1 x Full-height mSATA3.0 slot
BIOS	64Mb Flash ROM
Watch Dog	Support hardware reset function (256 levels, 0~255 seconds)
OS	Windows 10/Linux
Display	1 x Intel UHD Graphics 600 cores 1 x HDMI, 1 x DP (optional), support HDMI & DP synchronous and asynchronous display
Network	4 x Intel I225-V/I226-V 2.5G network, support Wake on LAN/PXE
I/O Interfaces	
Expansion	1 x Mini-PCIe slot (support both full-height and half-height), support 4G module (If WIFI is needed, only 3 wired network cards are supported)
Back I/O	4 x Intel I225-V/I226-V 2.5G network interface 2 x USB 2.0 1 x HDMI 1.4 (HDMI and DP dual-layer display interface is optional, of which the DP interface supports 4K display) 1 x 12V~19V DC IN
Front I/O	4 x USB 3.0 1 x Line OUT and MIC combo (optional) 2 x DB9 RS232 (RS232 for default, COM1 and COM2 support RS485 through hardware adjustment) 1 x Hard disk LED 1 x Power button with LED light
Internal I/O	1 x USB 2.0 1*4pin (support 2 x USB 2.0 when supporting 2 x network and not supporting 4G) 2 x COM 2*5pin (the same signal with front I/O, optional) 1 x Hard disk power input 1 x Power supply 1*4pin 1 x Front power button and LED interface 2*5pin
Fan	Back-mounted CPU passive cooling design, 1*4pin CPU fan interface is reserved
GPIO	4 x GPIO
Power Supply	DC 12V~19V power input
Mechanical & Environmental	
Dimension	120mm x 121mm
Operating Temp.	-20℃～60℃
Storage Temp.	-20℃～70℃
Operating Humidity	5%~95% relative humidity, non-condensing

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Beyond the Embedded Deployment