

NODE-I916

Intel® Meteor/Arrow Lake CPU module, Designed in accordance with JHCTECH NODE Type 1 design specifications, supports single-channel DDR5 5600 MHz, up to 48GB. DC IN

JHCTECH

IoT Computer
Connecting the Dots

NODE Core Module



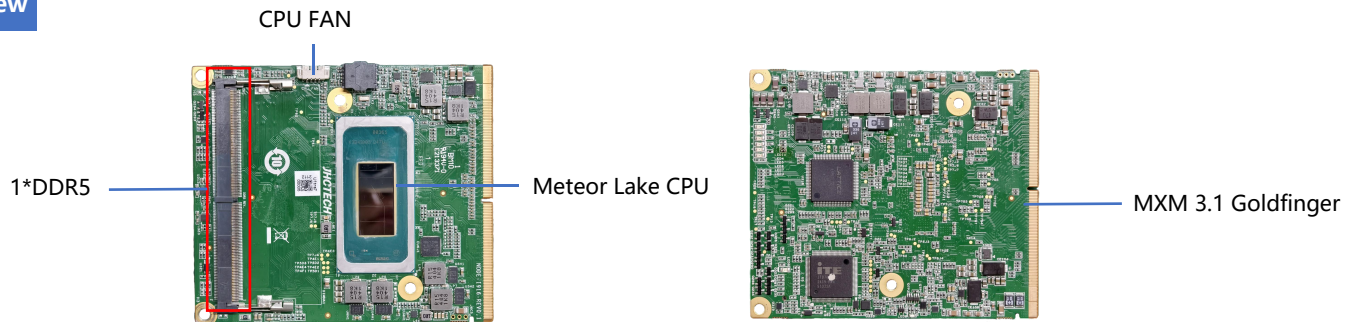
Key Features

- Intel® Meteor/Arrow Lake CPU
- Designed to meet Intel IEN Type F design specifications
- Support single-channel DDR5 5600Mhz, up to 48GB
- 2*DDI output, 1*eDP
- 4*PCIeX1, 1*PCIeX2, 1*PCIeX4
- 2*SATA 2*USB3.2, 10*USB2.0, 1*HDA, 4*UART, GPIO, 1*eSPI
- DC IN 12V

Description

NODE-I916 is a core module powered by Intel® Meteor/Arrow Lake CPU, which supports single-channel DDR5 5600Mhz memory and up to 48GB. The motherboard module is a low-power and flexible cost-effective product for industrial automation, security, environmental protection, and logistics and warehousing management.

I/O View

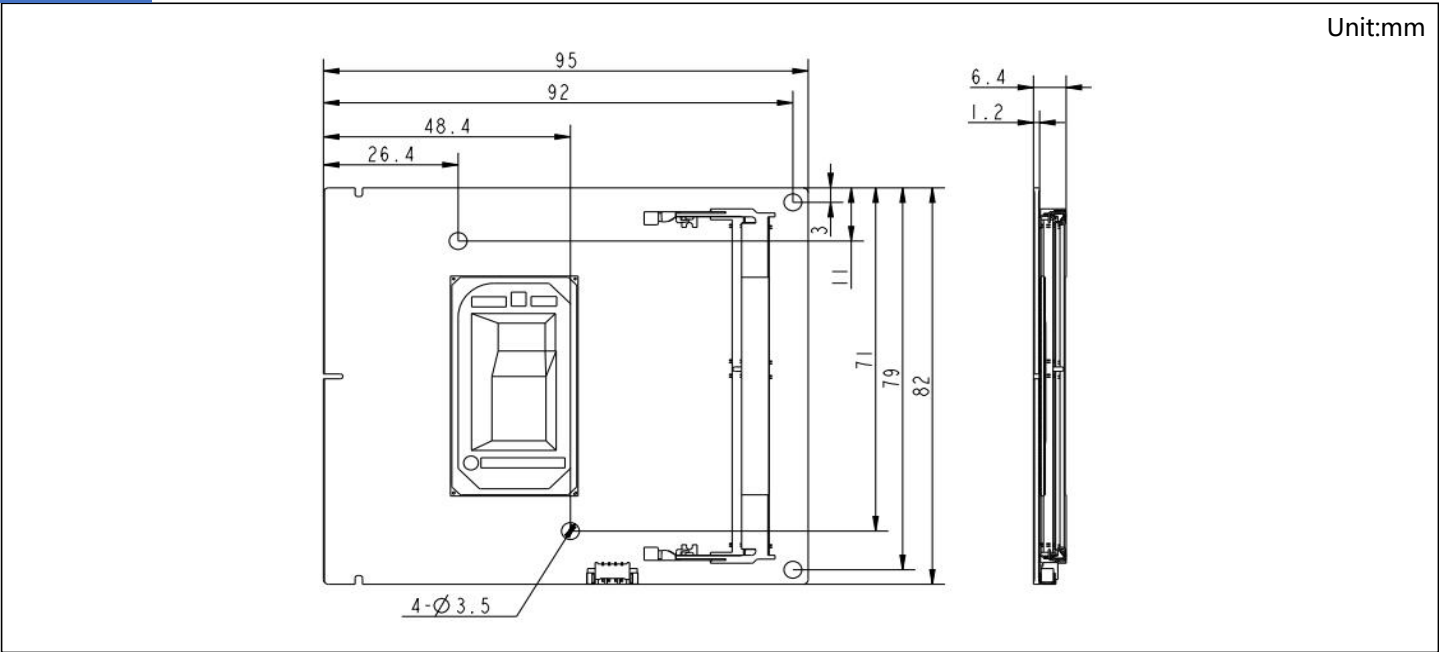


SPEC.

CPU	CPU	Intel® Core™ Ultra 5 125U	Intel® Core™ Ultra 5 225U
	Cores	2*P Core + 8*E Core	2*P Core + 8*E Core
	Total Threads	14	14
	Frequency	1.3~4.3 GHz	1.3~4.8 GHz
	TDP-up	15W	15W
NPU	Intel® AI Boost, supports OpenVINO™, WindowsML, DirectML, ONNX RT		
Memory	Single-channel DDR5 1*260-pin SO-DIMM slot, support up to 5600MHz, up to 48GB		
Graphics	Intel® Graphics or Intel® Arc™ graphics, Supports DirectX12.2, OpenGL 4.6 and OpenCL 3.0 HDMI 2.1 max. res. 4096x2304@60Hz, DP 1.4 max. res. 7680x4320@60Hz, eDP max. res. 3820*2400@120Hz		
MXM 3.1 Goldfinger (281-Pin)	DDI	2	
	eDP	1	
	USB3.2	2	
	USB2.0	10	
	PCIeX1	4	
	PCIeX2	1	
	PCIeX4	1	
	eSPI	1	
	SATA(PCIeX1)	2	
	HDA	1	
	SM BUS	1	

	Legacy IO	1
	RTC	1
	UART	4
	GPIO	3
	F-Panel: Power SW/Reset/PW-LED/HDD-LED	
Power Supply	DC IN 12V	
Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second	
OS Support	Windows 10 64bit, Windows 11 64bit, SUSE, Ubuntu, Wind River, Linux	
Dimension	95*82*6.4mm	
Operating temperature	0 ~ 60°C	
Storage Temperature	-40°C~85°C	
Storage Humidity	10~95%@40°C, Non-condensing	
EMC/Certification	CE/FCC Class A	

Dimension



Ordering Info

Module No.	CPU	Introduction
NODE-I916/S002	Intel® Core™ Ultra 5 processor 125U	1*DDR5 5600MH, 2*DDI, 1*eDP, 2*USB3.2, 10*USB2.0, 1*PCleX2, 1*PCleX4, RTC, 4*PCleX1, 2*SATA, 1*eSPI, 1*HDA, 1*SPI, Legacy IO, SM BUS Power SW/Reset/PW-LED/HDD-LED, 3 bit GPIO, 4*UART, DC 12V power in
NODE-I916/T002	Intel® Core™ Ultra 5 processor 225U	