

      							
	EOM-I912	NODE-I719	NODE-I721	NODE-I914	NODE-I916	NODE-I966	NODE-I973
Formfactor	INE Type F	NODE Type 1	NODE Type 1	NODE Type 1	NODE Type 1	NODE Type 2	NODE Type 2
CPU	Intel® Tiger lake U SoC CPU: i7-1165G7, 4C8T, 2.8~4.7GHz/28W; i5-1135G7, 4C8T, 2.4~4.2GHz/28W; i3-1115G4, 2C4T, 3.0~4.1GHz/28W;	Intel Elkhart lake Soc CPU: Celeron J6412, 4C4T, 2.0-2.6GHz/10W	Intel Twin lake CPU : N150, 4C4T, 0.8~3.40 GHz/6W	Intel® Tiger lake U SoC CPU: i7-1165G7, 4C8T, 2.8~4.7GHz/28W; i5-1135G7, 4C8T, 2.4~4.2GHz/28W; i3-1115G4, 2C4T, 3.0~4.1GHz/28W;	Intel® Core™ Ultra 5 125U: 2*P Core + 8*E Core, 14, 1.3~4.3 GHz, 15W Intel® Core™ Ultra 5 225U: 2*P Core + 8*E Core, 14, 1.3~4.8 GHz, 15W	Intel gen. 9th Coffee lake-s LGA1151	Intel® Comet lake-S CPU: Core i9/i7/i5/i3/Celeron
内存	双通道DDR4 2*260-pin SO-DIMM, up to 3200MHz, 64GB max.	单通道DDR4 1*260-pin SO-DIMM, up to 3200MHz, 32GB max.	单通道DDR5 1*260-pin SO-DIMM槽, 支持到4800MHz, 最大16GB	单通道DDR4 1*260-pin SO-DIMM, up to 3200MHz, 32GB max.	单通道DDR5 1*260-pin SO-DIMM 槽, 支持到5600MHz, 最大48GB	双通道DDR4 2*260-pin SO-DIMM槽, 支持到2400/2666MHz, 最大64GB	双通道DDR4 2*260-pin SO-DIMM, up to 2933MHz, 64GB max.
Graphics	Intel UHD Graphics or Iris® Xe Graphics, Supports Intel® Deep Learning Boost, DirectX12.1,OpenGL 4.6 and OpenCL 2.0; HDMI 2.0: 4096x2304@60Hz, DP 1.4: 7680x4320@60Hz, eDP: 4096x2304@60Hz	Intel® UHD Graphics, DirectX12.1, OpenGL and OpenCL; DP1.4 : 4096*2160@60Hz, eDP: 4096*2160@60Hz	Intel® UHD Graphics, 支持DirectX, OpenGL and OpenCL DP 1.4 :4096x2160@60Hz, eDP:4096x2160@60Hz	Intel Iris® Xe Graphics, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI 2.0: 4096x2304@60Hz, DP 1.4: 7680x4320@60Hz, eDP: 4096x2304@60Hz	Intel® Graphics, Intel® Arc™ graphics, DirectX12.2, OpenGL 4.6 and OpenCL 3.0, HDMI 2.1 :096x2304@60Hz, DP 1.4: 7680x4320@60Hz, eDP: 3820*2400@120Hz	Intel ® UHD Graphics 630, DirectX 12, OpenGL 4.5和OpenCL 2.1 HDMI为4K超高清显示:4096x2160@30Hz, DP: 4096x2304@60Hz, eDP: 4096x2304@60Hz	Intel ® UHD Graphics 630, DirectX 12, OpenGL 4.5 and OpenCL 2.1; HDMI:4096*2160@30Hz, DP:4096*2304@60Hz, eDP:4096*2304@60Hz
Connector 1	eSPI and Fusa PCIe Gen3 X1*4/X4*1 PCIe Gen3 or USB3.2 X2*1 COM 1 USB2.0 3 SATA 1 DDI 1 GPIO Up to 15 channels F-Panel: Power SW/Reset/PW-LED/HDD-LED	MXM 3.1 Goldfinger(281-Pin) DDI 2 eDP 1 USB3.1 4 USB2.0 10 PCIe3.0 X1*4 PCIe3.0 X2*1 SATA(PCIeX1) 2 eSPI 1 HDA 1 SM BUS 1 Legacy IO 1 RTC 1 UART 4 GPIO 3 F-Panel: Power SW/Reset/PW-LED/HDD-LED	MXM 3.1 Goldfinger(281-Pin) DDI 2 eDP 1 eDP 1 PCIeX1 3 USB3.2/PCIeX1 4 USB2.0 8 SATA3.0/PCIeX1 2 eSPI 1 HDA 1 SM BUS 1 Legacy IO 1 RTC 1 UART 4 GPIO 3 F-Panel: Power SW/Reset/PW-LED/HDD-LED	MXM 3.1 Goldfinger(281-Pin) DDI 2 eDP 1 USB3.2 4 USB2.0 10 PCIe3.0 X1*4 PCIe3.0 X2*1 PCIe3.0 X4*1 SATA(PCIeX1) 2 LPC(eSPI) 1 HDA 1 HDA 1 SM BUS 1 Legacy IO 1 RTC 1 UART 4 GPIO 3 F-Panel: Power SW/Reset/PW-LED/HDD-LED	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 HDA 1 SM BUS 1 Legacy IO 1 RTC 1 UART 4 GPIO 3 F-Panel: Power SW/Reset/PW-LED/HDD-LED	MXM 3.1 Goldfinger(281-Pin) DDI 2 eDP 1 USB3.2 1 USB2.0 6 USB2.0 10 PCIeX1 5 PCIeX2 1 SATA 4 LPC(eSPI) 1 HDA 1 HDA 1 SM BUS 1 Legacy IO 1 RTC 1 UART 3 GPIO 3 F-Panel: Power SW/Reset/PW-LED/HDD-LED	MXM 3.1 Goldfinger(281-Pin) DDI 2 eDP 1 USB3.2 6 USB2.0 10 PCIe3.0 X1*5 PCIe3.0 X2*1 SATA(PCIeX1) 4 LPC(eSPI) 1 HDA 1 HDA 1 SM BUS 1 Legacy IO 1 RTC 1 UART 3 GPIO 3 F-Panel: Power SW/Reset/PW-LED/HDD-LED
	PCIe3.0 X1*1 PCIe3.0 or USB3.1 X2*1 CPU PCIe Gen4 X1*2 HDA 1 USB2.0 5 SATA 1 DDI 1 COM 2 GPIO Up to 30 channels						
电源	DC IN 12V;	DC IN 12V;	DC IN 12V;	DC IN 12V;	DC IN 12V;	DC IN 12V;	DC IN 12V;
尺寸	133*95*16.6mm	95*82*6.4mm	95*82*6.4mm	95*82*6.4mm	95*82*6.4mm	150*100*13mm	150*100*13mm
工作温度	0~60°C(标准版); -40~85°C(宽温版)	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C
存储温度	- 40°C~85°C	-40°C~85°C	- 40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
存储湿度	10~95%@40°C, Non-condensing	10~95%@40°C, Non-condensing	10~95%@40°C, Non-condensing	10~95%@40°C, Non-condensing	10~95%@40°C, Non-condensing	10~95%@40°C, Non-condensing	10~95%@40°C, Non-condensing
认证/EMC	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
看门狗定时器	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒
操作系统	Windows 10/Windows 11 64 bit, SUSE, Ubuntu, Wind River, Linux	Windows 10/Windows 11 64 bit, SUSE, Ubuntu, Wind River, Linux	Windows 10 64bit, Windows 11 64bit, SUSE, Ubuntu, Wind River, Linux	Windows 10/Windows 11 64 bit, SUSE, Ubuntu, Wind River, Linux	Windows 10 64bit, Windows 11 64bit, SUSE, Ubuntu, Wind River, Linux	Windows 10 64bit, Windows 11 64bit,SUSE, Ubuntu, Wind River, Linux	Windows 10/Windows 11 64 bit, SUSE, Ubuntu, Wind River, Linux

ATX-1971 ATX-1980		
系统核心		
处理器	Intel 10th Gen. Cometlake-S Core i9/i7/i5/i3/ Pentium/Celeron CPU, LGA 1200 Socket, 最大125W	Intel 12/13/14th Gen. Alder lake-S Core i9/i7/i5/i3/Pentium/Celeron CPU, LGA 1700 Socket, 最大125W
内存	2* DDR4 288-Pin Non-ECC UDIMM, 2933MHz, 最大64GB	4* DDR4 288-Pin Non-ECC UDIMM, 3200MHz, 最大128GB
显卡	Intel UHD Graphics, Supports DirectX12, OpenGL 4.5, OpenCL 2.1, HDMI:4096*2160@30Hz, VGA:1920*1200@60Hz	Intel Xe 700 UHD Graphics , DirectX 12, OpenGL 4.5, OpenCL 2.1; HDMI:4096*2160@60Hz,VGA:1920*1200@60Hz DP:7680*4320@60Hz
I/O接口		
网口	1*Intel® I226V, 10M-2.5G; 1*Intel® I219LM, 10-1000M, 支持iVpro	1*Intel® I226V, 10-1000M,WOL; 1*Intel® I219LM, 10-1000M, iAMT13.0,vPro
USB	4*USB3.2(5G), 4*USB2.0, 3*USB2.0 (板内)	4*USB3.2(10G), 4*USB2.0 2*USB3.2(10G,板内), 3*USB2.0(板内)
显示	1*HDMI+1*VGA	1*HDMI+1*DP+1*VGA
音频	1*Line in+1*Line out+1*Mic, Realtek ALC897, 可选功放	1*Line out+1*Mic,Realtek ALC897, 可选功放
串口& 其他	2* RS232/422/485, 4*RS232 (板内); 1*LPT , 1*PS/2 (板内)	1* RS232/422/485, 5* RS232(板内);
DIO	8-bit DIO, 可编程TTL信号	8-bit DIO, 可编程TTL信号
存储		
存储	4*SATA3, HDD/SSD	4*SATA3.0, RAID 0/1/10/5 1*M.2 2280 M-Key(PCIe4.0X4)
扩展		
扩展接口	1*PCIeX16; 3*PCIeX4 (X2+X1+X1 / 1*PCIeX4) ; 3* 32-bit PCI (运动控制卡、视频采集卡等 多种功能模块卡)	2*PCIe 5.0 X16 (X8); 2*PCIe 4.0 X4 (X4); 2*PCIe 3.0 X4 (X4+X1) 1*32-bit PCI(运动控制卡、视频采集卡等) 1*M.2 2280 M-Key(PCIe4.0X4)
电源		
电源& 功耗	24-Pin ATX+8-Pin ATX 12V TDP:184.85W(i7-10700K/16G DDR4/256G SSD)	24-Pin ATX+8-Pin ATX 12V TDP: 110W(i7-12700K CPU/16G D4/128G SSD)
尺寸&工作环境		
尺寸 (W*H)	305*244mm(总高37.6mm, PCB板厚1.6mm)	305*244mm(总高34.9mm, PCB板厚1.6mm)
工作温度	0~60°C	0~60°C
存储温度	-40°C~85°C	-40°C~85°C
存储湿度	10~95%@40°C, 无冷凝	10~95%@40°C, 无冷凝
认证/EMC	CE/FCC Class A	CE/FCC Class A
看门狗 定时器	可编程超时中断或系统复位, 1到255秒	可编程超时中断或系统复位, 1到255秒
操作系统	Windows 10, Windows 11, Linux Ubuntu	Windows 10/11 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7

可选功能模块

ECB-293&ECD-2460	
接口	Mini PCIe,52Pin
以太网	2*Intel I210AT, 10-1000M
工作温度	-20°C~80°C
尺寸	30*50.9*6.0mm (ECB-246) 51*27*18mm (ECD-2460)
ECB-260 CANBus	
PC接口	Mini PCIe,52Pin
CAN接口	2*DB9
应用软件	FCANBus
CAN标准	CAN2.0A/CAN2.0B, ISO/DIS 11898-1/2/3
协议支持	车载DBC、CANopen、J1939
工作温度	-40°C~85°C
尺寸	50.95*30*1.6mm
OFX-075	
输入	DC IN 9-36V
输出	DC OUT 12V
功耗	功耗最小54W, 最大78W
工作温度	0°C~60°C
尺寸	53*38mm



