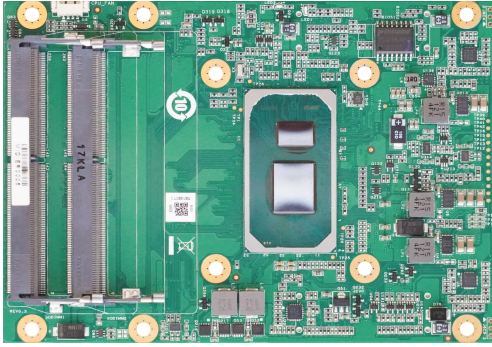




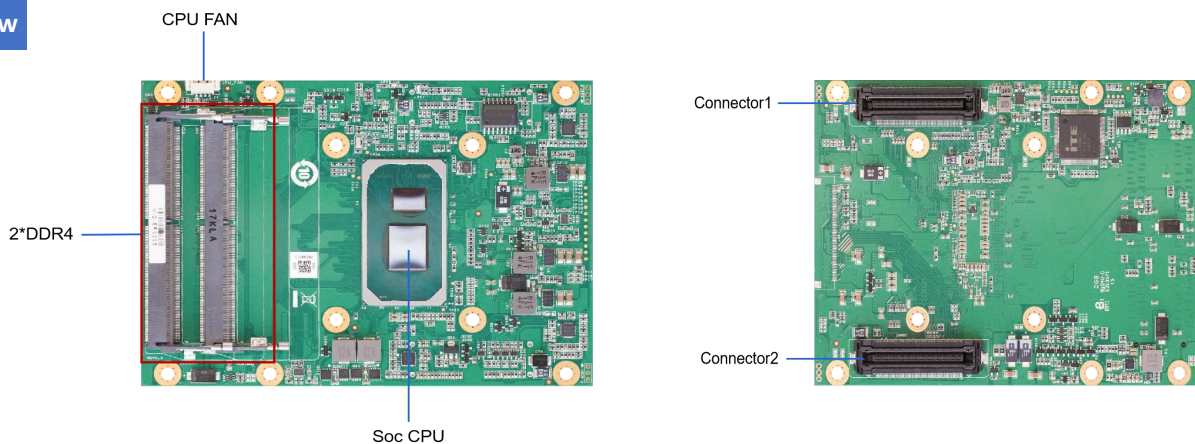
Key Features

- Intel® Tiger lake U Soc CPU module
- Intel® Core i7/i5/i3/Celeron
- Designed according to Intel IEN Type F specification
- Dual-channel DDR4 3200Mhz, up to 64GB
- 4*PCIe×1 or 1*PCIe×4, 1*PCIe Gen3 lanes, 2*PCIe×1 Gen4 lanes
- 3*GbE LAN, 2*SATA, 2*DDI, 4*USB3.1, 8*USB2.0, 3*COM, 1*HDA, eSPI, DIO
- DC IN 12V

Description

EOM-I912 powered by Intel® Tiger lake U Soc CPU, designed according to the INTEL industrial edge node Type F standard, supporting dual-channel DDR4 3200MHz memory, up to 64GB. EOM-I912 is a compact product with low power consumption and flexible expansion. It is suitable for medical imaging, military, rail transit and power applications.

I/O View



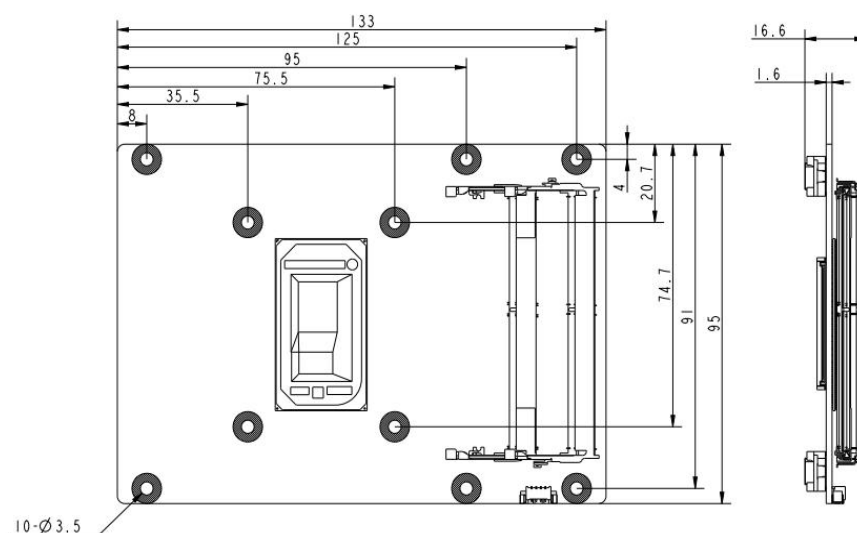
SPEC.

CPU	CPU	i7-1165G7	i5-1135G7	i3-1115G4	Celeron 6305E
	Cores	4	4	2	2
	Total Threads	8	8	4	2
	Frequency	2.8~4.7 GHz	2.4~4.2 GHz	3.0~4.1 GHz	1.8 GHz
	TDP-up	28W	28W	28W	15W
Memory	Dual-channel DDR4 2*260-pin SO-DIMM, up to 3200MHz, 64GB				
LAN	3* GbE Lanes				
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 max. res. 4096x2304@60Hz, DP 1.4 max. res. 7680x4320@60Hz, eDP max. res. 4096x2304@60Hz				
Connector 1 signal	eSPI and Fusa				
	PCIe Gen3	4×1 or 1×4			
	PCIe Gen3 or USB3.1	2			
	COM	1			
	USB2.0	3			
	SATA	1			
	DDI	1			
	GPIO	Up to 15 channels			
	F-Panel: Power SW/Reset/PW-LED/HDD-LED				

Connector 2 signal	PCIe Gen3	1
	PCIe Gen3 or USB3.1	2
	CPU PCIe Gen4	2
	HDA	1
	USB2.0	5
	SATA	1
	DDI	1
	COM	2
	GPIO	Up to 30 channels
Power Supply	DC IN 12V	
Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second	
OS Support	Windows 10/Windows 11 64 bit, SUSE, Ubuntu, Wind River, Linux	
Dimension	(W*H): 133*95mm	
Operating temperature	Standard: 0 ~ 60 °C; Extend: -40 ~ 85 °C	
Storage Temperature	-40°C~85°C	
Storage Humidity	10~90%@40°C, Non-condensing	
EMC/Certification	CE/FCC Class B	

Dimension

Unit:mm



Ordering Info

Module No.	CPU	Introduction
EOM-I912/S001	Intel® Core I3-1115G4	Intel® Tiger lake U Soc Core I7/I5/I3/Celeron CPU, 2*DDR4 3200MHz, Connector1(1*eSPI, Fusa, 4*PCIeX1, Legacy IO, 2*PCIe(USB3.1), Power SW/Reset/PW-LED/HDD-LED, 1*DDI, 3*USB2.0,1*PCIe(SATA) , 1*COM, GPIO), Connector2(1*DDI, 1*PCIe(SATA), 2*PCIe(USB3.1), 1*PCIeX1, 1*CPU PCIeX2, Legacy IO, HDA, 5*USB2.0, 2*COM, GPIO), DC 12V power in
EOM-I912/S001/GRE	Intel® Core I3-1115GRE	
EOM-I912/S002	Intel® Core I5-1135G7	
EOM-I912/S002/GRE	Intel® Core I5-1145GRE	
EOM-I912/S003	Intel® Core I7-1165G7	
EOM-I912/S003/GRE	Intel® Core I7-1185GRE	
EOM-I912/S004	Intel® Celeron 6305E	