

# S101\_V2



- Onboard Intel 11th Gen Tiger Lake-U series processor
- Onboard memory, 1 x DDR4 SO-DIMM, up to 48GB
- 6 x Intel 2.5G network, 2 groups of ByPASS
- M.2 Key-M, Key-E, Key-B
- PCIe\_8X expansion, TPM2.0, DC 9-36V
- 150W Single power supply. Optional redundant power supply (dual 150W)



The actual appearance is subject to the final configuration.

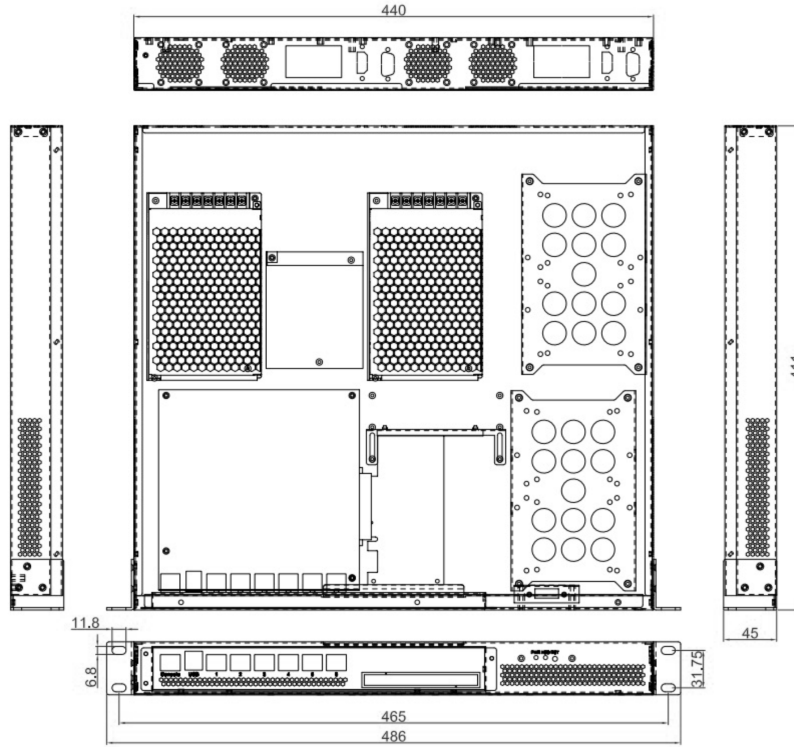
## Specifications

<b>MODEL</b>	S101_v2		
<b>Supported OS</b>	Windows 10 / Windows 11 / Linux		
<b>CPU</b>	Model	Onboard Intel® 11th generation Tiger lake-U series processors	
<b>RAM</b>	S-DIMM	1 x DDR4 SO-DIMM Onboard memory, up to 48GB	
<b>Storage Devices</b>	SATA	1 x M.2 M-Key 2280, default NVMe PCIe 3.0 x4 protocol, optional SATA 3.0 protocol	
	MSATA	2 x SATA 3.0 ports. Support 2 x 3.5-inch hard drives or 2 x 2.5-inch hard drives. ( Remarks: 1.When using dual power supplies there is only one 3.5-inch hard drive 2.Each 3.5-inch hard drive can be replaced by two 2.5-inch hard drives. )	
<b>I/O INTERFACE (Front and Rear Panel)</b>	Ethernet	1 x RJ45 Console	6 x LAN (Intel i226-V)
	USB	2 x USB 3.0	
	Video & Audio	1 x VGA port	
	PCIe	1 x PCIe 8X (PCIe_x4) expansion, support full height 12CM expansion card (up to 6 network ports)	
	Fan	2 x 4040 system fans	
	Other	1 x Power Led, 1 x HDD Led, 1 x Reset Switch, 1 x Power Switch	
	Power supply	150W single power supply. Optional redundant power supply (dual 150W)	
<b>Internal Motherboard Expansion Functions</b>	TPM2.0	Optional TPM2.0, no as default	
	M.2	1 x M.2 E-Key (PCIe / USB 2.0 protocol. Support WIFI / BT module)	
		1 x M.2 B- Key (USB 2.0 / USB 3.0 protocol. Support 4G/5G module)	
	Sim Card	1 x Micro Sim Card Slot	
	PCIe	1 x PCIe 8X (PCIe_x4) expansion bit	
Other	Default SATA 2 Card, CF Card Optional		
<b>Environment</b>	Operating Temperature	-20 ~ 60 °C	
	Storage Temperature	-40 ~ 85 °C	
	Relative Humidity	5 to 95%	

Physical Characteristics	Material	Masteel, the outer surface is sprayed with sand pattern powder black
	Dimensions	486(L) x 411(W) x 45(H)mm +/- 0.2mm (with mounting ear size)
	Net Weight	4.5 Kg with sigle Power Supply, 6.5 Kg with dual Power Supply
Regulation	EMC	FCC, CE, RoHS

## Dimension

Unit:mm



## Internal Modules Wiew

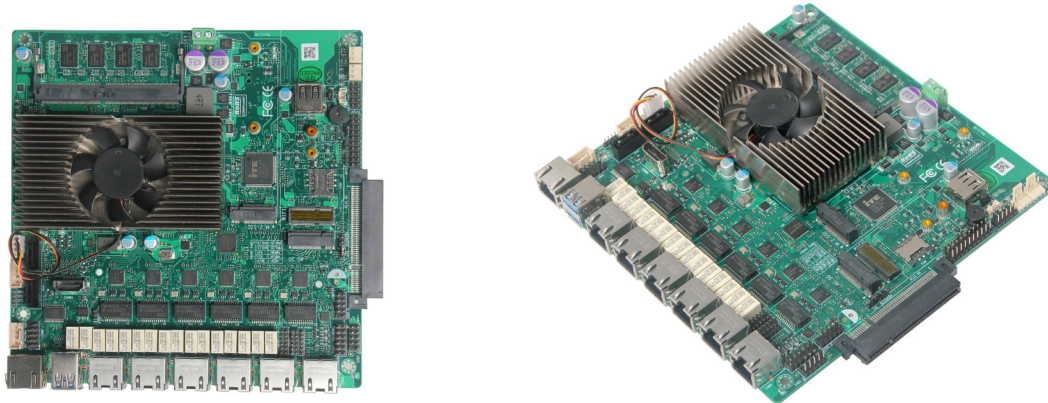


## Ordering Information

SO-DIMM DDR4	M.2 M-Key 2280	SATA 3.0	RJ45	LAN (Intel i226-V)	USB 3.0	VGA	PCIe
1	1	2	1	6	2	1	2
Fan	TMP2.0	M.2 E-Key	M.2 B-Key	SATA 2 Card	Internal SIM card Slot	Power Supply	
2	Optional	1	1	Default	1	Single 150W PS, Optional Dual	

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# Onboard Intel 11<sup>TH</sup> Gen Tiger Lake-U Series Specifications



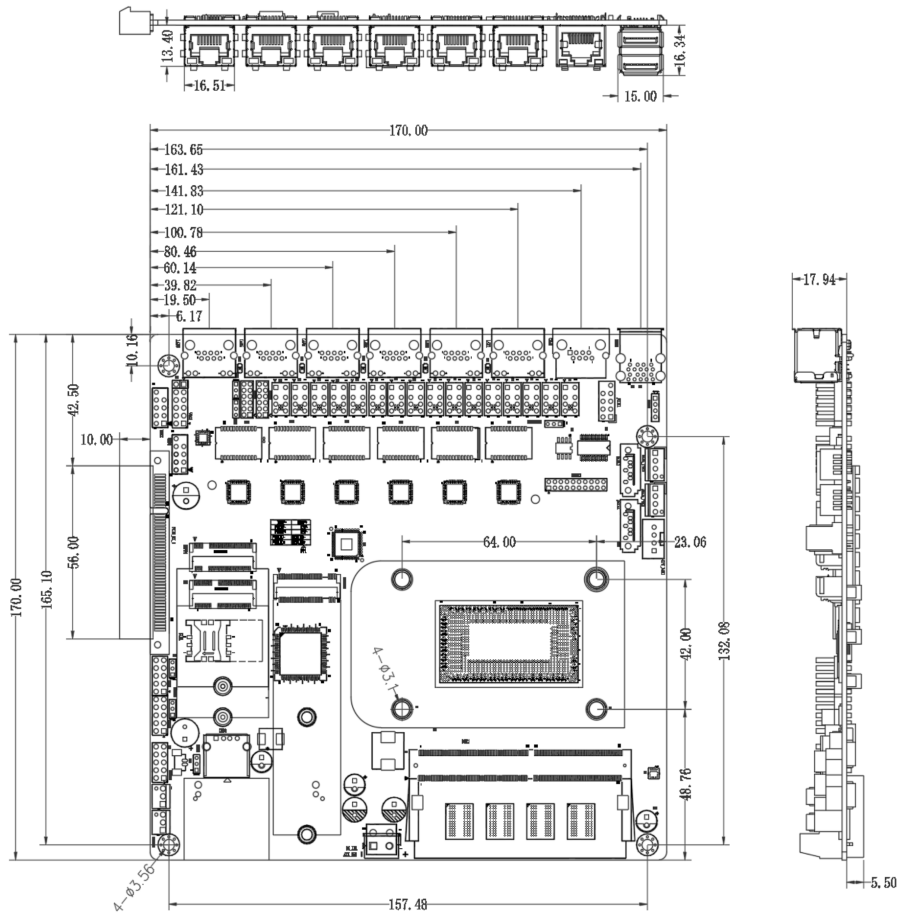
The actual appearance is subject to the final configuration.

<b>MODEL</b>	Intel 11th generation Tiger Lake-U series processors		
<b>Supported OS</b>	Windows 10 / Windows 11 / Linux		
<b>CPU</b>	Model	Intel® Core Celeron 6305	Intel® Core™ i3-1115G4
		Intel® Core™ i5-1135G7	Intel® Core™ i7-1165G7
<b>RAM</b>	S-DIMM	1 x DDR4 SO-DIMM memory slot; onboard memory, up to 16GB, total up to 48GB	
<b>Storage Devices</b>	M.2	1 x M.2 Key-M 2280, NVMe (PCIe4.0_X4) protocol	
	CF	1 x CF card, 3.3V/5V power supply option. Choose one with SATA1	
	SATA	2 x SATA 3.0, choose one of SATA1 and CF card. Default 2 SATA3.0	
<b>Board Edge I/O Interface</b>	Ethernet	6 x RJ45, Intel i225V 2.5G network, LAN1/2/3/4 with ByPASS	
	USB	2 x USB 3.0	
	RS232	1 x RS232 (RJ45 interface)	
	Video & Audio	1 x VGA port	1 x HDMI 2.0
	PCIe	1 x PCIe 8X (PCIe_x4) expansion, support full height 12CM expansion card (up to 6 network ports)	
	Power supply	DC 9-36V, 90W, copper radiator with fan	
<b>Inboard Expansion Functions</b>	TPM2.0	TPM2.0, optional	
	M.2	1 x M.2 Key-E slot, supports PCIe_X1 and USB 2.0 protocols, 2230 size WIFI/BT devices	
		1 x M.2 Key-B slot, supports USB 2.0 and USB 3.0 protocols, 3G/4G/5G devices	
	Pin	F_Panel, 2x5Pin, pitch 2.54mm	
	PCIe	1 x PCIe_8X (PCIe3.0_X4)	
	RS232	1 x RS232 header, 2x5Pin, pitch 2.54mm	
	USB 2.0	2 groups (4) USB 2.0 headers, 2x5Pin, pitch 2.54mm	
	GPIO	8-bit GPIO header, 2x5Pin, pitch 2.54mm	
Other	1 x 4Pin CPU smart fan, 2 x 3Pin system fan AT/ATX power-on selection		
<b>Environment</b>	Operating Temperature	-20 ~ 60 °C	
	Storage Temperature	-40 ~ 85 °C	
	Relative Humidity	0% ~ 90% relative humidity, non-condensing	
<b>Characteristics</b>	Dimensions	170(L) x 170(W) mm	

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Dimension

Unit:mm



Processors Info & Available List

CPU	Total Cores	Total Threads	Max Turbo Frequency	Processor Base Frequency	Cache	Bus Speed	TDP	Memory Types
Intel® Core Celeron 6305	2	2	-	1.80 GHz	4 MB Intel® Smart Cache	4 GT/s	15 W	DDR4-3200
Intel® Core™ i3-1115G4	2	4	4.10 GHz	3.00 GHz	6 MB Intel® Smart Cache	4 GT/s	28 W	DDR4-3200
Intel® Core™ i5-1135G7	4	8	4.20 GHz	2.40 GHz	8 MB Intel® Smart Cache	4 GT/s	28 W	DDR4-3200
Intel® Core™ i7-1165G7	4	8	4.70 GHz	2.80 GHz	12 MB Intel® Smart Cache	4 GT/s	28 W	DDR4-3200

Packing List

Default Items	Qty
S101_v2	1

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