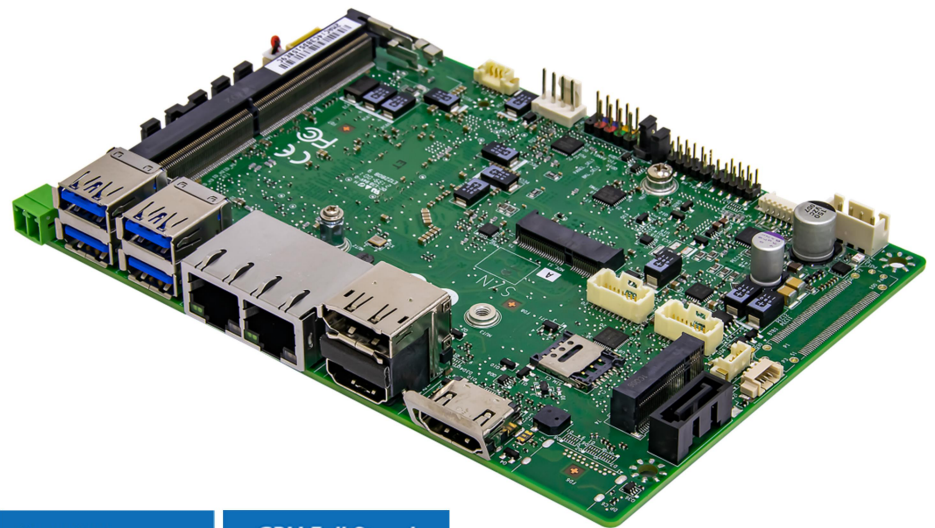




ONYS363A

**RUGGEDISED OPEN-STANDARD 3.5" SBC
EXPANSION, EXTENDED TEMPERATURE -40
TO 85°C**



Extended
Temperature
+85°C
-40°C

CPU Full Speed



- 11th Tiger Lake-UP3 i7-1185G7E/i5-1145G7E/i3-1115G4E/ Celeron® G6305E
- Dual M.2 Slots: 1x M.2 2242/2260/2280 B-key (SATA, PCIe x1), 1x M.2 2230 E-key (PCIe, USB)
- Compatible with M.2 3042/3052 & SIM Slot for 5G Network Connectivity
- 1 x DDR4 SO-DIMM up to 32GB
- 1 x SATA III , 2 x Intel® Gigabit Ethernet
- 2 x USB 2.0, 4 x USB 3.1
- 4 x COM (3 x RS232, 1 x RS232/422/485)
- 8~24V Wide Voltage Power Input
- Extended Temperature ET : -20 to 70°C ; UT : -40 to 85°C

Specifications

SYSTEM

CPU	Intel® Core™ i7-1185G7E Processor (4 Cores/8 Threads, 12M Cache, up to 4.40 GHz),15W/28W Intel® Core™ i5-1145G7E Processor (4 Cores/8 Threads, 8M Cache, up to 4.10 GHz),15W/28W Intel® Core™ i3-1115G4E Processor (2 Cores/4 Threads, 6M Cache, up to 3.90 GHz),15W/28W Intel® Celeron® 6305E Processor (2 Cores/2 Threads, 4M Cache, up to 1.80 GHz),15W
Memory type	DDR4 3200MHz / 1 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
Chipset	Intel® SoC Integrated
I/O Chipset	Nuvoton NCT6126D
TPM	Nuvoton NPCT750AABYX TPM2.0
H/W Monitor	Temperature Monitor, Voltage Monitor, Fan Monitor
Watchdog	1-255 sec. or 1-255 min. software programmable and can be generate system reset
Smart Fan Control	CPU Fan
BIOS	AMI BIOS

EXPANSION SLOT

M.2	1 x M.2 2230 E-key (Wifi & BT , PCIe / USB) 1 x M.2 2242 / 2260 / 2280 / 3042 / 3052 B-key (Storage / 5G / LTE,USB2.0 / PCIe x 1 / SATAIII)
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DISPLAY

Chipset	Intel® Iris Xe Graphics
HDMI 2.0b	Up to 4K (4096 x 2160) @ 60 Hz
Display Port1.4	Up to 5120 x 3200 @ 60 Hz
LVDS	Up to 1920 x 1200 @ 60 Hz

ETHERNET

Chipset	Intel® I219LM Giga LAN + I225LM 2.5G
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AUDIO

Codec	Realtek® ALC256
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REAR I/O

USB	4 x USB 3.1
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Display Port	1 x DP ; 2 x HDMI
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LAN	2(1 x GbE ; 1 x 2.5GbE)
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INTERNAL I/O

SATAIII	1
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USB 2.0	2
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Display I/O	1 x LVDS 1 x Backlight connector
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Audio	1 x Speaker connector 1 x Mic-in & Line-out
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Serial	4 (1 x Support RS-232 / 422 / 485)
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CPU Fan	1
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Power	1 x 8~24V 4-pin Power Connector, 1 x AT/ATX Mode Select Jumper
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Front Panel Control	1 x Front IO Header (PWR ON / RESET / PWR LED / HDD LED)
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MECHANICAL AND ENVIRONMENTAL

Form Factor	3.5"
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Power Type	DC-IN 8~24V
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Dimension	102mm x 147mm
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Operating Temperature	ET : -20 to 70°C
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UT : -20 to 70°C	
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Storage Temperature	-40 to 85°C
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Relative humidity	10% to 90%, non-condensing
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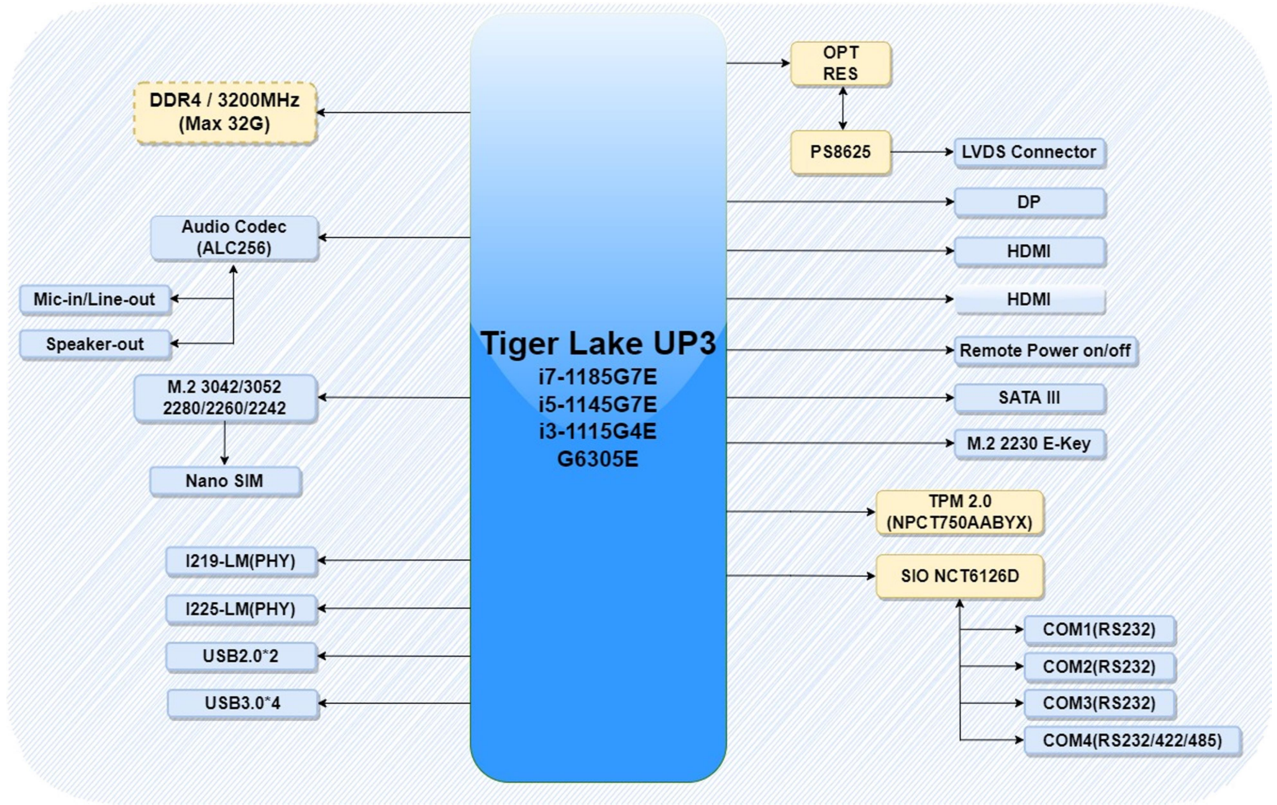
STANDARD COMPLIANCE

Standard Compliance	CE/FCC
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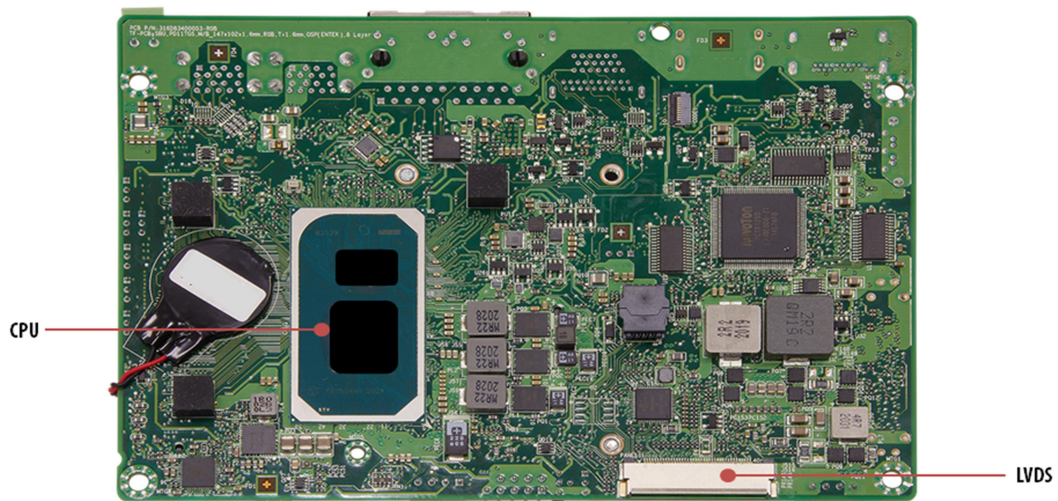
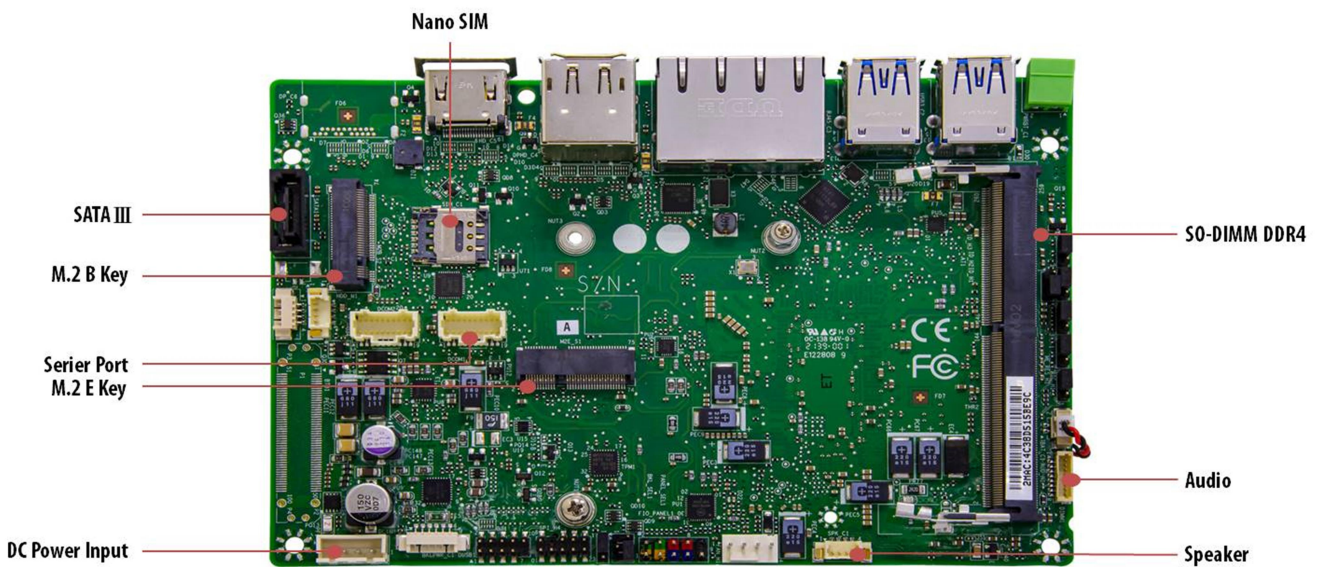
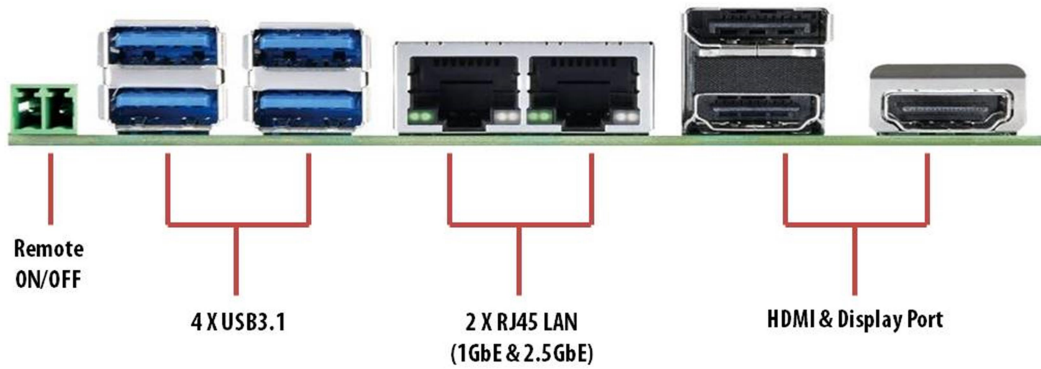
OS

OS Support	Windows®10 64bit, Linux(Support by request)
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Block Diagram



Board Placement



Ordering Information

Model	Description
OXY5363A-01ET	Intel® 11th Gen. Tiger Lake-U Core™ i7-1185G7E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -20 to 70°C
OXY5363A-01UT	Intel® 11th Gen. Tiger Lake-U Core™ i7-1185G7E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -40 to 85°C
OXY5363A-02ET	Intel® 11th Gen. Tiger Lake-U Core™ i5-1145G7E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -20 to 70°C
OXY5363A-02UT	Intel® 11th Gen. Tiger Lake-U Core™ i5-1145G7E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -40 to 85°C
OXY5363A-03ET	Intel® 11th Gen. Tiger Lake-U Core™ i3-1115G4E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -20 to 70°C
OXY5363A-03UT	Intel® 11th Gen. Tiger Lake-U Core™ i3-1115G4E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -40 to 85°C
OXY5363A-04ET	Intel® 11th Gen. Tiger Lake-U Celeron® 6305E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -20 to 70°C
OXY5363A-04UT	Intel® 11th Gen. Tiger Lake-U Celeron® 6305E, DDR4 up to 32GB, Dual M.2 expansion slots: M.2 2242/2260/2280/3042/3052 B-key, M.2 2230 E-key, Extended Temp. -40 to 85°C