

# A10-N305 Specifications

<b>Processor</b>	
CPU	Intel® Core™ i3-N305
Cores	8 Cores
Frequency	1.8GHz, Max turbo to 3.8GHz
Graphics	Intel UHD Graphics, Up to 1.25GHz
Cache	6MB L3-Cache
BIOS	AMI EFI 128Mbit
SPI Flash	32MB
<b>Memory</b>	
Technology[1]	64-bit LPDDR5 4800MT/s
Capacity	8GB/16GB
<b>Storage[2]</b>	
UFS	128GB/256GB
<b>Display</b>	
HDMI	Type-A Female, 4K@60fps HDMI2.1, Dynamic HDR, CEC, DSC 1.1 and HDCP 2.2
DP	USB Type-C Female, 4K@60fps
Multiple Displays[3]	2 (HDMI + DP)
<b>Network</b>	
LAN	x1 RJ45, 2.5 Gigabit Ethernet
Wireless Communication	Expansion E-KEY M.2 Slot Wi-Fi 6/6E Support, IEEE 802.11 ax/ac/a/b/g/n
<b>Audio</b>	
Chipset	Senary SN6140, Low Power HD Audio Codec, Line-in, Line-out
Interface	x1 6-pin 1.27mm Header, Headphone Jack x1 4-pin 1.27mm Header, DMIC
<b>Interfaces</b>	
USB	x2 USB 3.2 Gen1, Type-A Female x1 USB 3.2 Gen1 + PD +DP, Type-C Female x2 USB2.0, 6-pin 1.27mm Header x1 USB 3.2 Gen1, 12-pin 1.27mm Header
LED	x2 LEDs, Power LED(Red) + System LED(White)
Buttons	x1 Button, Power
Sensor	TDK ICM-42670-P, 6-axis Digital Accelerometer
I2C	x2 I2C, 4-pin 1.27mm Header + 6-pin 1.27mm Header(x2 Normal GPIO)
SPI	x1 SPI, 6-pin 1.27mm Header
UART	x2 UART, 4-pin 1.27mm Header x1 Debug UART, 3-pin 1.27mm Header
GPIO	x4 Normal GPIO, 4-pin 1.27mm Header
KEY	x1 PWR KEY, 4-pin 1.27mm Header
FAN	x1 4-pin 1.27mm Header
<b>Expansion</b>	

NAMTSO Link[4]	x1 4-lane + x2 1-lane PCIe x1 USB 3.2 + x1 USB 2.0 x1 HDMI x1 I2C + x2 UART + x1 Debug UART
M.2 Slot	x1 E-KEY M.2 Slot, Wi-Fi 6 Module Support
<b>Power</b>	
USB-C PD Input	12 ~ 24V
DC Power Input	12V ~ 24V, 4-pin 2.54mm Header
NAMTSO Link	Power Input: 12V ~ 24V Power Output: 12V ~ 24V
Priority[5]	NAMTSO Link > DC Power Input > USB-C PD Input
<b>Environment</b>	
Operational Temperature	-20°C ~ 80°C, 95% RH Non-Condensing
Non-Operational Temperature	-40°C ~ 85°C, 95% RH Non-Condensing
<b>Physical</b>	
Dimension	145.0mm x 101.2mm x 13.3mm
Weight	93.7g
Mounting Holes	x4 Size M2 + x4 Size M3
<b>Operating System[6]</b>	
Linux	Ubuntu 22.04
Windows	Windows 11
<b>Certification</b>	CE, FCC, UCKA, TELEC, RoHS

[1] i3-N305 compatible JEDEC standards DDR4(3200MT/s)/DDR5(4800MT/s)/LPDDR5(4800MT/s).

[2] SSD and SATA can be accessed through NAMTSO Link.

[3] HDMI is not available through NAMTSO Link.

[4] NAMTSO Link: NAMTSO self-developed high speed connector.

[5] Any power supply switching after power-on will cause a power outage and restart.

[6] Official test system, other versions should theoretically have no problems.