

N15LP6 SPEC Main Specification

CPU	Intel Alder Lake-U platform	<p>Alder Lake U series processor</p> <ul style="list-style-type: none"> ⊕ Alderlake U-15W (up to 10 cores) ⊕ New Golden Cove Core (Big Core), package 50mm x 25mm*1.185mm ⊕ Processor Base Power: 15W ⊕ Maximum Assured Power: 28W ⊕ Minimum Assured Power: 12W ⊕ Xe 96EU 4*display ⊕ Core i7 Processor, 10 core (2c+8c 96EU) ⊕ Core i5 Processor, 10 core (2c+8c 96EU) ⊕ Core i3 Processor, 6 core (2c+4c 80EU)
Memory	DDR4	<ul style="list-style-type: none"> ⊕ Support SO-DIMM DDR4 memory ⊕ Speed: 3200 MT/s ⊕ RAM socket *2 , 2*64bit, dual channel ⊕ System up to 64GB
BIOS Specification		
KBC	IT5570	<ul style="list-style-type: none"> ⊕ ACPI 6.4 compliant
BIOS	AMI	<ul style="list-style-type: none"> ⊕ Support FTPM or TPM ⊕ UEFI 64bits code ⊕ 16MB flash ROM
Display Specification		
LCD	Follow AVL	<ul style="list-style-type: none"> ⊕ 15.6" HD, TN 16:9 LED type ⊕ 15.6" FHD IPS 16:9 LCD (option) ⊕ Support Anti-Glare LCD thickness support: 3.2mm ⊕ EDP interface
Audio Specification		
Audio Codec	Realtek ALC269	<ul style="list-style-type: none"> ⊕ Build-in two speakers ⊕ Stereo speaker : 2W*2 ⊕ Internal Microphone support
Speaker/MIC	Follow AVL	<ul style="list-style-type: none"> ⊕ Build-in two speakers ⊕ Speaker : 2W*2 ⊕ Internal Microphone support (Dmic on camera controlled by codec IC)

Input Specification		
Keyboard	B.O.W	<ul style="list-style-type: none"> BR 105 Keys inside KB support 346mm x 109.5.0mm x 4.35±0.2 mm (with backlight) Caps Lock LED support (Green color) Keyboard backlight (option) Spill water resistance (same current CML project)
Pointing Device	Follow AVL	<ul style="list-style-type: none"> I²C click pad with 2 buttons,Size: 105*52.5mm
Finger Print (optional)	TBD	<ul style="list-style-type: none"> Vendor :TBD, P/N : TBD SPI interface Capacitive Compatible w/ Windows Hello
Wireless Specification		
LAN Controller	RTL8111H	<ul style="list-style-type: none"> Support 10/100/1000 Mb/Sec. PCI-E interface Support S3 / S4 wake on LAN (WOL) feature
WiFi+BT combo module	AC 9461	<ul style="list-style-type: none"> WIFI + BT Combo Module, M.2 2230 type Support IEEE 802.11 a/b/g/n/ac/x, CNVI interface Support BT 5.2, USB interface Wi-Fi 6 / Wi-Fi 6E (Gig+)
Storage Specification		
HDD	Follow AVL	<ul style="list-style-type: none"> 2.5" SATA 3.0 HDD/SSD support 7mm 5400rpmrpm
SSD	Follow AVL	<ul style="list-style-type: none"> M.2 Type 2280 SSD support PCIe Gen4 x4 Or SATA3.0 (EE BOM is different)
Card reader	RTS5170-GR	<ul style="list-style-type: none"> Support SD/SDHC/SDXC2.0 USB interface
Webcam Specification		
Webcam	Follow AVL	<ul style="list-style-type: none"> Build in Camera module with D-Mic

		<ul style="list-style-type: none"> ⊕ HD webcam / FHD webcam (optional) ⊕ Green LED ⊕ USB interface ⊕ W/CCD cover
Power Specification		
Battery Pack	Follow AVL	<ul style="list-style-type: none"> ⊕ Li-polymer Battery, removable ⊕ Support Fast charging 70% up to 1 hour ⊕ With HDD,3cells,11.55V/3030mAh (3s1p), 35Wh; ⊕ W/O HDD,3cells,11.55V/4760mAh (3s1p), 55Whrs; ⊕ Smart battery with gauge IC on battery protect board ⊕ Coin- cell battery CR-2032 ⊕ UL/CB certification ⊕ Battery Life (ADK MSFT) - 10 hrs+/-10% Ci5/8GB/256GB SSD.
AC-Adapter	Follow AVL	<ul style="list-style-type: none"> ⊕ Automatics Voltage adjustment between 100 and 240VAC 50 / 60Hz, ⊕ 45Watts (19V/2.37A), 3 pin ⊕ 65Watts (19V/3.42A), 3 Pin(for fast charge) ⊕ CB Certification
System Specification		
Physical Outline	Dimension: <ul style="list-style-type: none"> ⊕ Size: 359*240*19.8mm, W/O Rubber foot ⊕ Weight: about 1.6kg with HDD 	
I/O Port	<ul style="list-style-type: none"> ⊕ 1 x USB2.0 I/O Board ⊕ 2 x USB3.2 Gen1 (W/ USB Power, System shut down at AC mode, Power Rating 1.5A Only support one USB 3.2 gen 1 with power function working even product is shut down.) ⊕ 1 x Type C (USB3.2 Gen1), can support Full function Or Data only ⊕ 1 x HDMI standard (2.0b) ⊕ 1 x RJ45 (10/100/1000 Mbps) ⊕ 1 x DC-in Jack ⊕ 1 x Phone jacks for external microphone + headphone ⊕ 1 x Card reader socket ⊕ 1 x Kensington lock 	

System Status Indicator (Follow current project CML)	Power LED status	
	⊕	Power On: Green
	⊕	Suspend: Blinking Green
	Battery LED status	
	⊕	Charging: power on - Green Color, power off - Orange color , Fully charged - light off
	⊕	Battery Low : interlaced Blinking Green & Orange
	HDD LED status	
	⊕	Read / Write: Umber Color
OS Specification		
MS Windows	⊕	Support Windows 11 64bit with WHQL submission
	⊕	Support Linux & Ubuntu
Certification Specification		
	EMI	⊕ CE
	Safety	⊕ CB/UL
	Others	⊕ RoHs/HDMI/WHCK
Others		
⊕ HW SPI interface TPM 2.0 support (Option, TPC = Infineon SLB9670)		
⊕ HW SPI interface TCM support (Option, TCM= NationZ Z32H330TC)		
⊕ Rubber foots for LCD – Transparent material (<i>Estane S190A</i>)		
⊕ Finish:		
⊕ A non-texture + painting (TBC)		
⊕ B non-texture + painting (TBC color)		
⊕ C non-texture + painting (TBC)		
⊕ B non-texture + painting (TBC color) + rubbers foots (TBC color)		
⊕ Keyboard: non-texture TBC color		
⊕ Keyboard backlight (N/A)		
⊕ FHD LCD Panel (Option)		
⊕ Finger print (Option)		
⊕ USB-C Full function (Option)		