N14LS6 SPEC Main Specification		
CPU	Intel Alder Lake-U platform	Alder Lake U series processor ⊕　　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	⊕　Support SO-DIMM DDR4 memory ⊕　Speed: 3200 MT/s ⊕　RAM socket *2 ,2*64bit,dual channel ⊕　System up to 64GB
BIOS Specification		
KBC	IT5570	⊕　　ACPI 6.4 compliant
BIOS	AMI	⊕　　Support FTPM or TPM ⊕　　UEFI 64bits code ⊕　　16MB flash ROM
Display Specification		
LCD	Follow AVL	⊕　14.1" HD,TN 16:9 LED type ⊕　14.1'' FHD IPS 16:9 LCD (option) ⊕　Support Anti-Glare LCD thickness support: 3.0mm ⊕　EDP interface
Audio Specification		
Audio Codec	Realtek ALC269	⊕　Build-in two speakers ⊕　Stereo speaker : 2W*2 ⊕　Internal Microphone support
Speaker/MIC	Follow AVL	⊕　Build-in two speakers ⊕　Speaker : 2W*2 ⊕　Internal Microphone support (Dmic on camera controlled by codec IC)

Input Specification		
Keyboard	DOK	⊕ BR 88 Keys inside KB support ⊕ 309mm x 108.8.0mm x 3.7±0.2 mm ⊕ Caps Lock LED support (Green color) ⊕ Keyboard backlight (No support) ⊕ Spill water resistance (same current CML project)
Pointing Device	Follow AVL	⊕ I²C click pad with 2 buttons,Size: 95*50.5mm
Finger Print (optional)	TBD	⊕ Vendor :TBD, P/N : TBD ⊕ SPI interface ⊕ Capacitive ⊕ Compatible w/ Windows Hello
Wireless Specification		
LAN Controller	RTL8111H	⊕ Support 10/100/1000 Mb/Sec. ⊕ PCI-E interface ⊕ Support S3 / S4 wake on LAN (WOL) feature
WiFi+BT combo module	AC 9461 AX201 AX210	⊕ 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	⊕ 2.5" SATA HDD/SSD support ⊕ 7mm ⊕ 5400rpmrpm
SSD	Follow AVL	⊕ M.2 Type 2280 SSD support PCIe Gen4 x4 Or SATA3.0 （EE BOM different）
Card reader	RTS5170-GR	⊕ Support SD/SDHC/SDXC2.0 ⊕ USB interface
Webcam Specification		
Webcam	Follow AVL	⊕ Build in Camera module with D-Mic

		⊕ HD webcam / FHD webcam (optional)
		⊕ Green LED
		⊕ USB interface
		⊕ W/CCD cover

Power Specification		
Battery Pack	Follow AVL	⊕ Li-polymer Battery, removable
		⊕ Support Fast charging 70% up to 1 hour
		⊕ With HDD,3cells,11.55V/3030mAh (3s1p), 35Wh;
		⊕ W/0 HDD,3cells,11.55V/4760mAh (3s1p), 55Whrs;
		⊕ Smart battery with gauge IC on battery protect board
		⊕ Coin- cell battery CR-2032（optional）
		⊕ UL/CB certification
		⊕ Battery Life (ADK MSFT) - 10 hrs+/-10% Ci5/8GB/256GB SSD.
AC-Adapter	Follow AVL	⊕ 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:
	⊕ Size: 324*221*19.8mm, W/O Rubber foot
	⊕ Weight: about 1.5kg with HDD
I/O Port	⊕ 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 (*Estane S190A*)

⊕ **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)