

1-6-1. Erp Lot 3 TEST**Test Purpose:**

To measure the power consumption

System Configuration:

1.	System Model:	V360SNX D+PVT
2.	CPU:	CPU INTEL I9-14900HX (2.2GHZ,RAPTOR LAKE HX REFRESH,99CAWR,Q39J,B0) 55W BGA1964 10NM 8+16C 32EU QS 6-S03-14900-FF0 CPU INTEL I7-14700HX (2.1GHZ,RAPTOR LAKE HX REFRESH,99CCGG,Q3G9,B0) 55W BGA1964 10NM 8+12C 32EU QS 6-S03-14700-EF0 CPU INTEL I7-14650HX (2.2GHZ,RAPTOR LAKE HX REFRESH,99CAZW,Q3AD,B0) 55W BGA1964 10NM 8+8C 16EU QS 6-S03-14650-FF0 CPU INTEL I5-14500HX (2.6GHZ,RAPTOR LAKE HX REFRESH,99CAZZ,Q3AH,B0) 55W BGA1964 10NM 6+8C 32EU QS 6-S03-14500-1F0 CPU INTEL I7-13700HX (2.1GHZ,RAPTOR LAKE HX,99C64T,SRME5,C0) 55W BGA1964 10NM 8+8C 32EU MP 6-03-13700-EF0
3.	Number of physical cores	8+16C
4.	System BIOS version:	1.07.01
5.	SYSTEM BIOS ROM:	IC FLASH GD25B256EYIGR 3V WSON8(8X6MM) 8-PIN(NEEDS PROGRAM BIOS F/W)
6.	M/B Version:	6-77-V365SNxx0-D02-x
7.	LED Board	6-77-V3604-D01
8.	Switch Board:	6-77-V350S-D02-A
9.	Audio BOARD	6-77-V3508-D02
10.	EC Version :	1.07.02
11.	Driver:	1.08.02
12.	Brightness :	--- cd/ m^2
13.	LCD:	LCD B16.0" QHD+/WVA/240HZ/DDS G-SYNC/DCI P3 100%/NON GT/EDP BOE NE160QDM-NZ2 4.6MM 6-50-MCB46-Z280 LCD B16.0" QHD+/WVA/165HZ/DDS G-SYNC/N7/NON GT/EDP BOE NE160QDM-NY1 V8.3 FG:8943 4.6MM(SRGB100%)HDR 6-50-MCB46-Z250 LCD B16.0" QHD+/WVA/240HZ/N7/NON GT/EDP TM TL160ADMP11-00 4.6MM(SRGB100%)500NITS 6-50-MCB46-T140 LCD B16.0" FHD+/WVA/165HZ/N7/NON GT/EDP INNOLUX N160JME-GT1 4.6MM(SRGB100%)400NITS 6-50-MBB46-V210 LCD B16.0" FHD+/WVA/165HZ/N7/NON GT/EDP SHARP LQ160N1JW02 5.2MM FOR 技嘉 6-950-MBB52-A300-Y LCD B16.0" FHD+/WVA/165HZ/N4/NON GT/EDP BOE NE160WUM-NX6 5.0MM FOR 技嘉 6-950-MBB50-Z300-Y LCD B16.0" FHD+/WVA/165HZ/N7/NON GT/EDP INNOLUX N160JME-GT1 4.6MM(SRGB100%)400NITS 6-50-MBB46-V210
14.	M.2 SATA/PCIE	SSD PCIE G4*4 M.2 2280 2TB SAMSUNG MZVL22T0HBLB-XXXXX (PM9A1) PCIE G4*4 3D TLC 128 LAYERS 6-85-D512T-S00 SSD PCIE G4*4 M.2 2280 1TB PHISON PS5021-E21 SS01TBMT47-06-E21 F/W:ELFMB0.6 3D TLC 6-985-NP5NP-003-M SSD M.2 2280 1TB WD SDBPNTY-1T00 (SN730) PCIE G3*4 3D TLC 96 LAYERS 6-85-D511T-W01 SSD M.2 2280 512GB SAMSUNG MZVLB512HBJQ-XXXXX (PM981A) PCIE G3*4 3D TLC 96 LAYERS (6-85-D515B-S0A) SSD M.2 2280 512GB PHISON ESMP512GKB4C2-E13T (E13T) PCIE G3*4 DRAMLESS 3D TLC 96 LAYERS (6-85-D515B-H05) SSD M.2 2280 512GB WD SDBPNTY-512G (SN730) PCIE G3*4 3D TLC 96 LAYERS 6-85-D515B-W02

15.	Audio:	IC AUDIO CODEC REALTEK ALC245-CG () MQFN-48(6MM*6MM)
16.	Main Battery:	BAT POLYMER 15.4V/3.51AH/53.35WH 4S1P SCUD EBTEB (SH366006Q) 6-87-V150S-53G01 BAT POLYMER 11.55V/3510MAH/41WH 3S1P SCUD EBTEB (SH366006Q) (RH5K31140012) (3410MAH) 6-87-V15KS-43G00 BAT POLYMER 15.2V/3.51AH/53.35WH 4S1P GETAC VEKEN (BQ40Z50) (541392290001) (3390MAH) /VEKEN (SH366006+BQ294708) 541392290001 /HB (3390MAH) 6-87-V150S-51C01 BAT POLYMER 15.4V/4730AH/73WH 4S1P SCUD HIGH POWER (BQ40Z50) (RH5K37140014) (4550MAH) 6-87-V360S-73A00
17.	AC/DC Adapter:	AC ADAPTOR 230W 20V 11.5A DC I/O M3P+2P CHICONY POWER A21-230P2B (A230A056P) 6-51-23022-2103 AC ADAPTOR 230W SLIM TYPE 20V 11.5A DC I/O M3P+2P LITEON PA-1231-26CL 6-51-23022-2300 AC ADAPTOR 180W SLIM TYPE 20V 9A DC I/O M3P+2P CHICONY A180A068P (A17-180P4B) 6-51-18022-2102 AC ADAPTOR 180W SLIM TYPE 20V 9A DC I/O M3P+2P LITE-ON PA-1181-76L 6-51-18022-2302
18.	Platform Controller Hub	IC PCH INTEL HM770 MP (RAPTOR LAKE HX) BGA 1045P 6-03-00770-0F0
19.	VGA Chipset	IC VGA CHIP NVIDIA GN21-X6-A1 (AD106-775-A1,MP,,,,,) . FCBGA 1358 BALLS IC VGA CHIP NVIDIA GN21-X4-A1 (AD107-775-A1,MP,,,,,) . FCBGA 1358 BALLS IC VGA CHIP NVIDIA GN21-X2-K2-A1 (AD107-750-K2-A1,MP,,,,,) . FCBGA 1358 BALLS
20.	VGA GRAM	IC GDDR6 16GB SGRAM 16*512M*2CH K4ZAF325BC-SC16 SAMSUNG (SUPPORT 1.25V & 1.35V) C-DIE FBGA 180P 6-04-43251-E42 IC GDDR6 16GB SGRAM 16*512M*2CH K4ZAF325BC-SC16 SAMSUNG (SUPPORT 1.25V & 1.35V) C-DIE FBGA 180P “雷神 CONSIGN” 6-904-43251-E42-HL
21.	VBIOS	95.06.30.00.07 (GTX-4070 GN21-X6-A1)
22.	USB3.1 Chipset :	IC USB POWER SWITCH AP22814AW5-7 SOT23-5 5P IC USB3.1 MUX WITH CC LOGIC ASM1543 QFN 32P IC USB POWER SWITCH 2A JW7115S-2SOTA#TRPBF (ACTIVE H) S0T23-5 IC USB HOST CHARGER SWITCH SLG55593AVTR (ACTIVE H) TDFN 8P IC USB POWER SWITCH FA7616EA5R SOT23-5 5P IC USB-C PORT CONTROLLER ANX7411QN-AC-R QFN-28 4X4MM
23.	K/B Controller:	IC IT5570E VER: CX EMBEDDED CONTROLLER KBC LQFP 128P
24.	LAN Board:	IC INTEGRATED 10/100/1000M ETHERNET CONTROLLER RTL8111H-VB-CG QFN 32P
25.	DDR RAM Module:	DDR5-5600 SO-DIMM 262PIN 32GB/2048M*8, CL46 1.10V HYNIX HMC688AGBSAXXXN H5CG48MEBDX 6-76-0012C-L12 DDR5-4800 SO-DIMM 262PIN 32GB/2048M*8, CL40 1.10V SAMSUNG M425R4GA3BB0-CQK K4RAH086VB-BCQK 6-76-0012C-L01 DDR5-5600 SO-DIMM 262PIN 32GB/2048M*8, CL46 1.10V HYNIX HMC688AGBSAXXXN H5CG48AGBDXXXX 6-976-NP5NE-003-M DDR5-5600 SO-DIMM 262PIN 16GB/2048M*8, CL46 1.10V HYNIX HMC678AGBSAXXXN H5CG48MEBDX 6-76-0012C-K13 DDR5-5600 SO-DIMM 262PIN 8GB/1024M*16, CL46 1.10V HYNIX HMC666AGBSAXXXN H5CG46XXXXX 6-76-0014C-J22
26.	CMOS LI-IONBattery:	BAT. 20MM 3V 220MAH W/CABLE 48MM CR2032-CL5V(JHT)
27.	K/B:	BL KB USA WIN11 KEY CVM22K33US94302 PE60RNE-G BLACK WHITE SILVER LINING PRINTING ISOLATION (332.95MM) CALL MUTE 6-80-PE610-01B-1 KB FRAME US PC+ABS (COVESTRO FR3008+) V355SNC TEXTURE 6-42-V3552-SU0
28.	Wireless LAN Card:	WLAN+BT COMBO DUAL BAND INTEL HARRISON PEAK 2 NEW OTP AX201.NGWG.NVW (MM#999TD0) NON-VPRO 2X2 AX+BT BT5.0 CNVI M.2 2230 6-88-NV40F-4210 WLAN+BT COMBO DUAL BAND INTEL WIFI 6E TYPHOON PEAK 2 AX210.NGWG.NV (MM#999M85) NON-VPRO 2X2 AX+BT BT5.2 M.2 2230

		6-88-X17KF-4210 WLAN+BT COMBO DUAL BAND INTEL WIFI 6E GARFIELD PEAK 2 AX211.NG.WG.NV (MM#999M5J) NO-VPRO 2X2 AX+BT BT5.2 M.2 2230 X270PTA 6-88-X270F-4210 Intel 2x2 Wi-Fi 7 BE200 w/320MHz QS PCIe (MM:99C47T) non-Vpro Intel 1x1 Wi-Fi 6 AX101 QS CNVi(MM:99CTX) non-Vpro
29.	Video Camera:	UVC CAMERA BISON FIX BNH419VXB-000 1M HD OV9734 N150ZU FW0601 W/WHITE-LED W/2D-MIC(NARROW BORDER) FFC type 6-88-N15ZC-4900 UVC CAMERA CHICONY FIX(RGB) C7FKH7221003920LH 1M HD W/2D-MIC 4.0*71.2 OV9734 N150ZU FWXXXX W/WHITE-LED 6-88-N15ZC-5102 UVC CAMERA BISON FIX(RGB) BNH4UGNE5-200 2M FHD +TNR W/2D-MIC 4.0*71.2 SONY 208 X170JNM FW0603 W/WHITE-LED 6-88-X17JC-4900
30.	Touch Pad:	CLICK PAD ELAN(IIC PTP) SC082A-26H8(120*82.4*2MM) L260TU 6-49-L2603-010 CLICK PAD FOCALTECH(IIC PTP) FMC0824PM(120*82.4*2MM) L260TU 6-49-L2603-020
31.	Card Reader	---
32.	Test Location:	PRODUCT DESIGN ASSURANCE LAB. (25~29℃ , 50~60% R.H.)
33.	Test Date:	12/04 ~ 12/28 2023

Test Specification:

(EU) No 617/2013

Equipment:

Item	Equipment description	Equipment brand/ Model	Equipment serial no.	Last calibration date	Next calibration due date
1	Digital Power Meter	YOKOGAWA WT210	00041079	Jun.16.2023	Jun.15.2024
2	AC POWER SOURCE	Chroma 61604	00041669	Jun.15.2023	Jun.14.2024

Ambient Condition:

Room temperature : 25°C

Relative humidity : 52%

Test Laboratory:

CLEVO CO.

No. 129, HSING-TE ROAD, SUN CHUNG CITY 241, TAIPEI HSIEN, TAIWAN, R.O.C

Product Design Assurance, R&D Center.

Tested By	Review By
	
Test Date : 2023 12/28	Review Date : 2024/01/05

Specification:**1. Notebook Categories for TEC Criteria :**

The following categories of notebook computer are define for the purposes of this Regulation :

Categories A : Notebook computer means a notebook computer that does not meet the definition of Categories B or Categories C notebook computer :

Categories B : Notebook computer means a notebook computer with at least one discrete graphics card (dGfx) :

Categories C : Notebook computer means a notebook computer with at least the following characteristics :

- a) A minimum two physical cores in the CPU;
- b) A minimum two 2 GB of system Memory; and
- c) A discrete graphics card (dGfx) meeting the G3 (with FB Data Wide > 128 bit), G4, G5, G6 or G7 classification;

2. Desktop Categories for TEC Criteria :

The following categories of desktop computer are define for the purposes of this Regulation :

Categories A : Desktop computer means a desktop computer that does not meet the definition of Categories B, Categories C or Categories D desktop computer :

Categories B : Desktop computer means a desktop computer with :

- a) Two physical cores within the CPU and
- b) A minimum two 2 GB of system Memory;

Categories C : Desktop computer means a desktop computer with :

- a) Three or more physical cores within the CPU ; and

- b) A configuration of minimum of one of the following two characteristics :
- c) A minimum of 2 GB of system Memory; and/or
- d) A Discrete GPU.

Categories D : Desktop computer means a desktop computer with :

- a) A minimum 4 physical Cores in the CPU ; and
- b) A configuration of minimum of one of the following two characteristics :
- c) A minimum of 4 GB of system Memory; and/or
- d) A Discrete graphics card (dGfx) meeting the G3 (with FB Data Wide > 128 bit), G4, G5, G6 or G7 classification;

3. TEC (Desktop and Notebook product categories)

TEC will be determined using the formula below :

$$E_{TEC} = (8760/1000) * (P_{off} * T_{off} + P_{sleep} * T_{sleep} + P_{idle} * T_{idle})$$

Desktop :

$$E_{TEC} = (8760/1000) * (P_{off} * 0.55 + P_{sleep} * 0.05 + P_{idle} * 0.4)$$

Notebook :

$$E_{TEC} = (8760/1000) * (P_{off} * 0.6 + P_{sleep} * 0.1 + P_{idle} * 0.3)$$

4. ETEC Requirement :

	Desktop Computer (kWh)	Notebook Computer (kWh)
TEC (kWh)	Categories A : ≤ 94.0 Categories B : ≤ 112.0 Categories C : ≤ 134.0 Categories D : ≤ 150.0	Categories A : ≤ 27.0 Categories B : ≤ 36.0 Categories C : ≤ 60.5
Capability Adjustments		
Memory	1 kWh (per GB over base) Base Memory: Categories A, B and C : 2GB Categories D : 4GB	0.4 kWh (per GB over 4)
Additional Internal Storage	25 kWh	3 kWh
Discrete TV tuner	15 kWh	2.1 kWh
Discrete audio card	15 kWh	/
First discrete graphics card (dGfx)	G1 : 18 kWh	G1 : 7 kWh
	G2 : 30 kWh	G2 : 11 kWh
	G3 : 38 kWh	G3 : 13 kWh
	G4 : 54 kWh	G4 : 20 kWh
	G5 : 72 kWh	G5 : 27 kWh
	G6 : 90 kWh	G6 : 33 kWh
	G7 : 122 kWh	G7 : 61 kWh
Each additional discrete graphics card (dGfx)	G1 : 11 kWh	G1 : 4 kWh
	G2 : 17 kWh	G2 : 6 kWh
	G3 : 22 kWh	G3 : 8 kWh
	G4 : 32 kWh	G4 : 12 kWh
	G5 : 42 kWh	G5 : 16 kWh
	G6 : 53 kWh	G6 : 20 kWh
	G7 : 72 kWh	G7 : 36 kWh

Quantity: 1 set

V360SNE D+PVT (M1 #0005 QHD - 240Hz)

Method/Condition:

1. Measure AC power consumption while AC source is 230V/50Hz
2. Lot 3 Test :
 - a) Sleep Mode.
 - b) Power Off (S5)
 - c) Idle Mode.

Conclusion:

Lot3 Test Result is passed.

Result:

AC ADAPTOR **230W** 20V 11.5A DC I/O M3P+2P CHICONY POWER A21-230P2B (A230A056P)
6-51-23022-2103 (OS-WIN11 23H2 Balance mode / With KB backlight)

Lowest Power State(Power OFF Mode)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz)	0.307992	$\leq 0.5 \text{ W}$	Pass
S5 (230V / 50Hz 8GB)	0.309588	$\leq 0.5 \text{ W}$	Pass

OFF Mode (S5)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz) WOL Disable	0.309384	$\leq 1.0 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable	0.307992	$\leq 1.7 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable (8GB)	0.309588	$\leq 1.7 \text{ W}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Sleep Mode

Test Item	Result	SPEC	Judg.
	Power (W)		
Sleep (230V / 50Hz) WOL Disable	0.726648	$\leq 3.0 \text{ W (NB)}$ $\leq 5.0 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable	0.775656	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable (8GB)	0.766368	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Idle Mode

Test Item	Result
	Power (W)
Idle (230V / 50Hz)	6.55668
Idle (230V / 50Hz 8GB)	3.68028

Activity is limited to those basic applications that the system starts by default.

ETEC

Condition	Test Result (kWh)		SPEC (kWh)	Judgment
1. I9-14900HX (2.2GHZ,RAPTOR LAKE HX) 55W BGA1964 10NM 8+16C 32EU QS	230V / 50Hz	19.5292	117.5 (64GB) 95.1 (8GB)	Pass
2. Memory DDR5 5600 64GB*1 DDR5 5600 8GB*1		11.9703		Pass
3. Number of Hard Driver : SAMSUNG M.2 2TB*3	230V / 50Hz DDR5 5600 8G			

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.55 + \text{P}_{\text{sleep}} * 0.05 + \text{P}_{\text{idle}} * 0.4)$$

Notebook :

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.6 + \text{P}_{\text{sleep}} * 0.1 + \text{P}_{\text{idle}} * 0.3)$$

Lowest Power State(Power OFF Mode)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz)	0.343644	$\leq 0.5 \text{ W}$	Pass
S5 (230V / 50Hz 8GB)	0.344112	$\leq 0.5 \text{ W}$	Pass

OFF Mode (S5)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz) WOL Disable	0.346212	$\leq 1.0 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable	0.343644	$\leq 1.7 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable (8GB)	0.344112	$\leq 1.7 \text{ W}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Sleep Mode

Test Item	Result	SPEC	Judg.
	Power (W)		
Sleep (230V / 50Hz) WOL Disable	0.75102	$\leq 3.0 \text{ W (NB)}$ $\leq 5.0 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable	0.791844	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable (8GB)	0.826248	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Idle Mode

Test Item	Result
	Power (W)
Idle (230V / 50Hz)	4.39776
Idle (230V / 50Hz 8GB)	3.783

Activity is limited to those basic applications that the system starts by default.

ETEC

Condition	Test Result (kWh)		SPEC (kWh)	Judgment
1. I9-14900HX (2.2GHZ,RAPTOR LAKE HX) 55W BGA1964 10NM 8+16C 32EU QS	230V / 50Hz	14.0572	117.5 (64GB) 95.1 (8GB)	Pass
2. Memory DDR5 5600 64GB*1 DDR5 5600 8GB*1		12.4742		Pass
3. Number of Hard Driver : SAMSUNG M.2 2TB*3	230V / 50Hz DDR5 5600 8G			

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.55 + \text{P}_{\text{sleep}} * 0.05 + \text{P}_{\text{idle}} * 0.4)$$

Notebook :

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.6 + \text{P}_{\text{sleep}} * 0.1 + \text{P}_{\text{idle}} * 0.3)$$

Lowest Power State(Power OFF Mode)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz)	0.328548	$\leq 0.5 \text{ W}$	Pass
S5 (230V / 50Hz 8GB)	0.3021	$\leq 0.5 \text{ W}$	Pass

OFF Mode (S5)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz) WOL Disable	0.323952	$\leq 1.0 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable	0.328548	$\leq 1.7 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable (8GB)	0.3021	$\leq 1.7 \text{ W}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Sleep Mode

Test Item	Result	SPEC	Judg.
	Power (W)		
Sleep (230V / 50Hz) WOL Disable	0.717516	$\leq 3.0 \text{ W (NB)}$ $\leq 5.0 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable	0.761316	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable (8GB)	0.704352	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Idle Mode

Test Item	Result
	Power (W)
Idle (230V / 50Hz)	4.75332
Idle (230V / 50Hz 8GB)	3.35184

Activity is limited to those basic applications that the system starts by default.

ETEC

Condition	Test Result (kWh)		SPEC (kWh)	Judgment
1. I9-14900HX (2.2GHZ,RAPTOR LAKE HX) 55W BGA1964 10NM 8+16C 32EU QS	230V / 50Hz	14.8855	117.5 (64GB) 95.1 (8GB)	Pass
2. Memory DDR5 5600 64GB*1 DDR5 5600 8GB*1		11.0135		Pass
3. Number of Hard Driver : SAMSUNG M.2 2TB*3	230V / 50Hz DDR5 5600 8G			

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.55 + \text{P}_{\text{sleep}} * 0.05 + \text{P}_{\text{idle}} * 0.4)$$

Notebook :

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.6 + \text{P}_{\text{sleep}} * 0.1 + \text{P}_{\text{idle}} * 0.3)$$

Lowest Power State(Power OFF Mode)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz)	0.305172	$\leq 0.5 \text{ W}$	Pass
S5 (230V / 50Hz 8GB)	0.306528	$\leq 0.5 \text{ W}$	Pass

OFF Mode (S5)

Test Item	Result	SPEC	Judg.
	Power (W)		
S5 (230V / 50Hz) WOL Disable	0.297936	$\leq 1.0 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable	0.305172	$\leq 1.7 \text{ W}$	Pass
S5 (230V / 50Hz) WOL Enable (8GB)	0.306528	$\leq 1.7 \text{ W}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Sleep Mode

Test Item	Result	SPEC	Judg.
	Power (W)		
Sleep (230V / 50Hz) WOL Disable	0.651276	$\leq 3.0 \text{ W (NB)}$ $\leq 5.0 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable	0.694644	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass
Sleep (230V / 50Hz) WOL Enable (8GB)	0.700884	$\leq 3.7 \text{ W (NB)}$ $\leq 5.7 \text{ W (DT)}$	Pass

With an additional allowance of 0.7W for the WOL enable.

Idle Mode

Test Item	Result
	Power (W)
Idle (230V / 50Hz)	6.85572
Idle (230V / 50Hz 8GB)	4.36524

Activity is limited to those basic applications that the system starts by default.

ETEC

Condition	Test Result (kWh)		SPEC (kWh)	Judgment
1. I9-14900HX (2.2GHZ,RAPTOR LAKE HX) 55W BGA1964 10NM 8+16C 32EU QS	230V / 50Hz	20.2293	117.5 (64GB) 95.1 (8GB)	Pass
2. Memory DDR5 5600 64GB*1 DDR5 5600 8GB*1		13.6969		Pass
3. Number of Hard Driver : SAMSUNG M.2 2TB*3	230V / 50Hz DDR5 5600 8G			

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.55 + \text{P}_{\text{sleep}} * 0.05 + \text{P}_{\text{idle}} * 0.4)$$

Notebook :

$$\text{ETEC} = (8760/1000) * (\text{P}_{\text{off}} * 0.6 + \text{P}_{\text{sleep}} * 0.1 + \text{P}_{\text{idle}} * 0.3)$$