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TEST REPORT

for

ENERGY STAR® Program Requirements Product Specification for Computers Eligibility Criteria Version 9.0

Report Number.:	ACSSE2607033
Tested By (printed name and signature)	Universe Tian <i>Universe Tian</i>
Reviewed By (printed name and signature)	Elieen Guo <i>elieenguo</i>
Date of issue	September 16, 2026
Contents	Report: 26 pages Attachment A: 4 pages, Attachment B: 1 page, total 31 pages
Testing Laboratory Name	Audix Technology (Shenzhen) Co., Ltd
Address	No. 6, Kefeng Road, Science and Technology Park, Nanshan District, Shenzhen, Guangdong, China.
EPA-issued Laboratory ID	1106183
EPA Partner Company Name	Casper Bilgisayar Sistemleri A.S.
EPA-issued Organization ID	1131352
Address	Fatih Sultan Mehmet Mahallesi, Balkan Cad.No:47 Casper Plaza Umraniye/Istanbul, Turkiye
Test specification:	
Standard	ENERGY STAR® Program Requirements Product Specification for Computers Eligibility Criteria Version 9.0
Test methods	ENERGY STAR Test Method for Computers, Rev. July 2022
Procedure deviation.....	N/A
Non-standard test method	N/A
Test item description:	
Type of Test Object	NIRVANA ONE 23.8"
Trade mark/Brand name.....	Casper
Model number.....	Nirvana A800/900
Model name	Nirvana A800/900
Rated Ratings	19V $\overline{=}$ 6.32A

Copy of marketing plate:

Casper Bilgisayar Sistemleri A.Ş.

NIRVANA ONE 23.8"

Model: Nirvana A800/900

INPUT: 19V $\equiv$ 6.32A



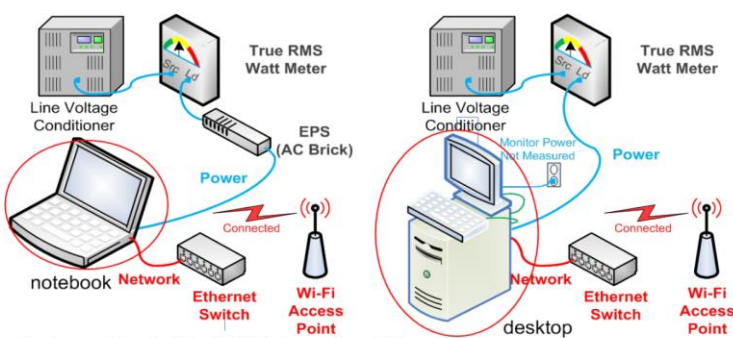
The artwork above may be only a draft. The use of certification marks or other information on the product must be complied with the concerned standard.

General Product Information:

- Into which Major Markets will this product be sold	☒ North America ☒ Japan ☒ Taiwan ☒ Switzerland
- Product Type.....	☐ Desktop Computers ☒ Integrated Desktop Computers; ☐ Notebook Computers; ☐ Slates/Tablets ☐ Portable All-In-One Computers ☐ Workstations ☐ Small-scale Servers ☐ Thin Clients.
- Power Supply Type	☐ Internal Power Supply (IPS) ☒ External Power Supply (EPS): ☐ Single-output ESP wiithout integral cooling fans ☐ Multi-output EPS without integral cooling fans
- Network Interface.....	☒ Ethernet ☒ Wi-Fi ☐ Other (Bluetooth)
- Full Network Connectivity?	☐ Yes: ☐ Network Proxy – Base Capability ☐ Network Proxy – Remote Wake ☐ Network Proxy – Service Discovery/Name Services ☐ Network Proxy – Full Capability ☒ No ☒ Conventional
- Product are shipped through Enterprise channels? ...	☒ Yes ☐ No



Factory default setting: (list all applicable setting)	
- WOL from Off..... :	☒ Enabled ☐ Disabled
- WOL from Sleep :	☒ Enabled ☐ Disabled
- Time of Computer Sleep Mode after user inactivity ... :	<u> 5 </u> minutes
- Time of Display Sleep Mode after user inactivity :	<u> 5 </u> minutes

Test Configuration: - Ambient temperature (18°C to 28°C) : 24°C - Relative humidity (10% to 80%) : 55% - Air speed (≤ 0.5 m/s) : 0.1m/s - Test Voltage and Frequency : 100V/50Hz, 100V/60Hz, 115V/60Hz, 230V/50HZ - THD of Test Voltage (max. $\pm 2.0\%$) : 0.2% - Test Voltage Tolerance (max. $\pm 1.0\%$) : 0.3% - Frequency Tolerance of Test Voltage (max. $\pm 1.0\%$)... : 0% - Power meter current crest factor : 3 - Power meter lower bound on current range : 5mA - network connection during testing : ☒ Ethernet connected ☐ Wi-Fi connected - Number of products tested : 1 unit - Serial number of tested unit(s) : None (Engineering sample)	
Set-up diagram used for electrical testing :  Equipment Under Test (EUT) "as shipped" in red circle	
Possible test case verdicts: - test case does not apply to the test object..... : N/A (Not Applicable) - test object does meet the requirement : P (Pass) - test object does not meet the requirement : F (Fail)	
Testing: Date of receipt of test sample : 2026-08-14 Status of test sample : Good appearance Date(s) of performance of tests : 2026-09-02 to 2026-09-03	

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Otherwise required by the customer or product regulations, decision rule in this report did not consider the measurement uncertainty.

"(see Attachment #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Report modify history

No.	Report No.	Issued date	Model Name	Description
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Model difference

All the models are the same, except model names are different.

Attachment:

Attachment A: 4 pages of photos of unit under test;

Attachment B: 1 page of LCD panel with LED backlight General Description.

3	QUALIFICATION CRITERIA	—															
3.1	Significant Digits and Rounding	—															
3.1.1	All calculations shall be carried out with directly measured (unrounded) values.	P															
3.1.2	Unless otherwise specified, compliance with specification limits shall be evaluated using directly measured or calculated values without any benefit from rounding.	P															
3.1.3	Directly measured or calculated values that are submitted for reporting on the ENERGY STAR website shall be rounded to the nearest significant digit as expressed in the corresponding specification limit.	P															
3.2	General Requirements	—															
3.2.1	Power supply test data and test reports from testing entities recognized by EPA to perform power supply testing shall be accepted for the purpose of certifying the ENERGY STAR product.	P															
3.2.2	Internal Power Supply (IPS) used in Computers eligible under this specification must meet the following requirements when tested using the Generalized Internal Power Supply Efficiency Test Protocol, Rev. 6.7.2	N/A															
	i. IPS with maximum rated output power less than 75 watts shall meet minimum efficiency requirements as specified in Table 1.	N/A															
	ii. IPS with maximum rated output power greater than or equal to 75 watts shall meet both minimum efficiency requirements and minimum power factor requirements, as specified in Table 1 or Table 2 as applicable.	N/A															
	Table 1: Requirements for Internal Power Supplies with Rated Output of 500 Watts and Below <table> <tr> <th>Loading Condition (Percentage of Nameplate Output Current)</th><th>Minimum Efficiency</th><th>Minimum Power Factor</th></tr> <tr> <td>10%</td><td>0.80</td><td></td></tr> <tr> <td>20%</td><td>0.82</td><td>-</td></tr> <tr> <td>50%</td><td>0.85</td><td>0.90</td></tr> <tr> <td>100%</td><td>0.82</td><td>-</td></tr> </table>	Loading Condition (Percentage of Nameplate Output Current)	Minimum Efficiency	Minimum Power Factor	10%	0.80		20%	0.82	-	50%	0.85	0.90	100%	0.82	-	—
Loading Condition (Percentage of Nameplate Output Current)	Minimum Efficiency	Minimum Power Factor															
10%	0.80																
20%	0.82	-															
50%	0.85	0.90															
100%	0.82	-															
	Table 2: Requirements for Internal Power Supplies with Rated Output Above 500 Watts <table> <tr> <th>Loading Condition (Percentage of Nameplate Output Current)</th><th>Minimum Efficiency</th><th>Minimum Power Factor</th></tr> <tr> <td>10%</td><td>0.80</td><td></td></tr> <tr> <td>20%</td><td>0.87</td><td>-</td></tr> <tr> <td>50%</td><td>0.90</td><td>0.90</td></tr> <tr> <td>100%</td><td>0.87</td><td>-</td></tr> </table>	Loading Condition (Percentage of Nameplate Output Current)	Minimum Efficiency	Minimum Power Factor	10%	0.80		20%	0.87	-	50%	0.90	0.90	100%	0.87	-	—
Loading Condition (Percentage of Nameplate Output Current)	Minimum Efficiency	Minimum Power Factor															
10%	0.80																
20%	0.87	-															
50%	0.90	0.90															
100%	0.87	-															
3.2.3	External Power Supplies (EPS)	P															

	Single- and Multiple-voltage EPSs shall meet the Level VI or higher performance requirements under the International Efficiency Marking Protocol when tested according to the Uniform Test Method for Measuring the Energy Consumption of External Power Supplies, Appendix Z to 10 CFR Part 430.		P
	I. Single-voltage EPSs shall include the Level VI or higher marking.		P
	II. Adaptive EPSs meeting Level VI or higher shall include the Level VI or higher marking.		P
	Additional information on the Marking Protocol is available at http://www.regulations.gov/#!documentDetail;D=EERE-2008-BT-STD-0005-0218		N/A
3.2.4	Energy Efficient Ethernet (EEE) Requirements: All products which contain one or more Ethernet ports with a bandwidth of 1Gb/s or higher shall have EEE supported in each of these ports in their as-shipped configuration.		N/A
3.3	Power Management Requirements		—
3.3.1	Products shall include power management features in their “as-shipped” condition as specified in Table 3, subject to the following conditions:	Integrated Desktop Computers	P
	i. For Thin Clients, the Wake-on-LAN (WOL) requirement shall apply for products designed to receive software updates from a centrally managed network while in Sleep Mode or in Off Mode. Thin Clients whose standard software upgrade framework does not require off-hours scheduling are exempt from the WOL requirement.		N/A
	ii. For Notebooks, WOL may be automatically disabled when the product is disconnected from ac mains power.		N/A
	iii. For all products with WOL, directed packet filters shall be enabled and set to an industry standard default configuration.		P
	iv. Products that do not support Sleep Mode by default are only subject to the Display Sleep Mode requirement.		N/A
	Table 3: Power Management Requirements:		—
	System Sleep/ Alternative Low Power Mode		P
	(1) Sleep/Alternative Low Power Mode shall be set to activate after no more than 30 minutes of user inactivity.	Sleep Mode is set to activate after <u>5</u> minutes of user inactivity by default	P

	(2) The speed of any active 1 Gb/s or faster Ethernet network links shall be reduced when transitioning to Sleep Mode or Off Mode. Or the links shall enter Energy Efficient Ethernet state when transitioning to Alternative Low Power Mode.		P
	- Display Sleep Mode		P
	(1) Display Sleep Mode shall be set to activate after no more than 15 minutes of user inactivity.	Display Sleep Mode is set to activate after <u>5</u> minutes of user inactivity by default	P
	- Wake on LAN (WOL)		P
	(1) Computers with Ethernet capability shall provide users with an option to enable and disable WOL for Sleep Mode.		P
	(2) Computers with Ethernet capability that are shipped through enterprise channels shall either:		P
	(a) be shipped with WOL enabled by default for Sleep Mode, when the computer is operating on ac mains power; or		P
	(b) provide users with the ability to enable WOL that is accessible from both the client operating system user interface and over the network ⁱⁱ .		P
	- Wake Management		N/A
	(1) Computers with Ethernet capability that are shipped through enterprise channels shall:		N/A
	(a) be capable of both remote (via network) and scheduled (via real-time clock) wake events from Sleep Mode, and		N/A
	(b) provide clients with the ability to centrally manage (via vendor tools) any wake management settings that are configured through hardware settings if the manufacturer has control over such features.		N/A
3.4	User Information Requirements		—
3.4.1	Products shall be shipped with informational materials to notify customers of the following:		P
	i. A description of power management settings that have been enabled by default,		P
	ii. A description of the timing settings for various power management features, and		P
	iii. Instructions for properly waking the product from Sleep Mode.		P
3.4.2	Products shall be shipped with one or more of the following:		P
	i. A list of default power management settings.		P

	ii. A note stating that default power management settings have been selected for compliance with ENERGY STAR (within 15 min of user inactivity for the display, within 30 min for the computer, if applicable per Table 3), and are recommended by the ENERGY STAR program for optimal energy savings.		P
	iii. Information about ENERGY STAR and the benefits of power management, to be located at or near the beginning of the hard copy or electronic user manual, or in a package or box insert.		N/A
3.4.3	Provisions 3.4.1 and 3.4.2 may be met through use of either electronic or printed product documentation, provided it adheres to all of the following:		P
	i. Documentation is shipped with the product (e.g., in a printed manual or insert, on included optical media, in a file installed with the software load shipped to the customer) or available electronically on the manufacturer's website. In the latter case, instructions for accessing the information on the website shall be provided in the product package or on the Desktop or home screen; and	Documentation is shipped with the product in a printed manual.	P
	ii. Documentation is included either (a) only with ENERGY STAR certified Computers; or (b) as part of the standard documentation if and only if accompanied by EPA-approved customer guidance on how to identify if their computer configuration is ENERGY STAR certified.	(b)	P
3.5	Requirements for Desktop, Integrated Desktop, and Notebook Computers		—
3.5.1	Resume Time Requirement: Notebook computers are required to wake from sleep or an alternative low power mode with a latency of less than or equal to 5 seconds from initiation of wake event to system becoming fully usable including rendering of display. Desktop and Integrated Desktop Computers shall meet this same requirement, but with a latency of less than or equal to 10 seconds. Manufacturers shall self-declare that the product can meet this requirement ⁱⁱⁱ . Resume time requirements do not apply to mobile workstations, workstations, or thin clients.	<u>3</u> _second	P
3.5.2	Calculated Typical Energy Consumption (E_{TEC}) for Desktop, Integrated Desktop, and Notebook Computers per Equation 1 shall be less than or equal to the maximum TEC requirement (E_{TEC_MAX}) per Equation 2, subject to the following requirements:	Integrated Desktop Computers	P
	i. The Additional Internal Storage adder allowance ($TEC_{STORAGE}$) shall be applied if there are more than one internal storage devices present in the product, in which case it shall only be applied once.	No Additional Internal Storage added	N/A

	ii. The Integrated Display adder allowance (TEC _{INT_DISPLAY}) applies only for Integrated Desktops and Notebooks and may be applied for each display. For Enhanced-performance Integrated Displays, the adder is calculated as presented in Table 7 and Equation 3.		N/A										
	iii. For Notebooks, Desktops, and Integrated Desktops that use an Alternative Low Power Mode in place of System Sleep Mode and Long Idle Mode, power in Alternative Low Power Mode (P _{ALPM}) may be used in place of both the power in Sleep (P _{SLEEP}) and the power in Long Idle (P _{LONG_IDLE}) in Equation 1 if the Alternative Low Power Mode measured power is less than or equal to 10 watts. In such instances, (P _{SLEEP} ×T _{SLEEP}) and (P _{LONG_IDLE} ×T _{LONG_IDLE}) are replaced by (P _{ALPM} ×T _{SLEEP}) and (P _{ALPM} ×T _{LONG_IDLE}); Equation 1 remains otherwise unchanged.	Sleep Mode provide.	N/A										
	iv. Notebooks, Desktops, and Integrated Desktops with switchable graphics may not apply the Discrete Graphics allowance, TEC _{GRAPHICS} , from Table 7 in Equation 2. However, for Desktop and Integrated Desktop systems that provide automated Switchable Graphics enabled by default, an allowance equal to 7 kilowatt hours (Desktop or Integrated Desktop) may be applied. This capability is manufacturer-declared.		N/A										
	Equation 1: TEC Calculation (E _{TEC}) for Desktop, Integrated Desktop, and Notebook Computers: E _{TEC} =8760/1000 x (P _{OFF} x T _{OFF} + P _{SLEEP} x T _{SLEEP} + P _{LONG_IDLE} x T _{LONG_IDLE} + P _{SHORT_IDLE} x T _{SHORT_IDLE}) Where: ■ P_{OFF} = Measured power consumption in Off Mode (W); ■ P_{SLEEP} = Measured power consumption in Sleep Mode (W); ■ P_{LONG_IDLE} = Measured power consumption in Long Idle Mode (W); ■ P_{SHORT_IDLE} = Measured power consumption in Short Idle Mode (W); and ■ T_{OFF}, T_{SLEEP}, T_{LONG_IDLE}, and T_{SHORT_IDLE} are mode weightings as specified in Table 4 (for Desktops, Integrated Desktops, and Thin Clients) or Table 5(for Notebooks).	See appended table 3.5, 3.6	P										
	Table 4: Mode Weightings for Desktops and Integrated Desktop Computers <table><tr><th>Mode Weighting</th><th>Conventional</th></tr><tr><td>T_{OFF}</td><td>15%</td></tr><tr><td>T_{SLEEP}</td><td>45%</td></tr><tr><td>T_{LONG_IDLE}</td><td>10%</td></tr><tr><td>T_{SHORT_IDLE}</td><td>30%</td></tr></table>	Mode Weighting	Conventional	T _{OFF}	15%	T _{SLEEP}	45%	T _{LONG_IDLE}	10%	T _{SHORT_IDLE}	30%	Conventional: T _{OFF} = 15% T _{SLEEP} = 45% T _{LONG_IDLE} = 10% T _{SHORT_IDLE} = 30%	—
Mode Weighting	Conventional												
T _{OFF}	15%												
T _{SLEEP}	45%												
T _{LONG_IDLE}	10%												
T _{SHORT_IDLE}	30%												

	Table 5: Mode Weightings for Notebook Computers <table><tr><th>Mode</th><th>Mode Weighting</th></tr><tr><td>T_{OFF}</td><td>10%</td></tr><tr><td>T_{SLEEP}</td><td>60%</td></tr><tr><td>T_{LONG_IDLE}</td><td>10%</td></tr><tr><td>T_{SHORT_IDLE}</td><td>20%</td></tr></table>	Mode	Mode Weighting	T _{OFF}	10%	T _{SLEEP}	60%	T _{LONG_IDLE}	10%	T _{SHORT_IDLE}	20%	Not Notebook Computer	—					
Mode	Mode Weighting																	
T _{OFF}	10%																	
T _{SLEEP}	60%																	
T _{LONG_IDLE}	10%																	
T _{SHORT_IDLE}	20%																	
	Equation 2: E_{TEC_MAX} Calculation for Desktop, Integrated Desktop, and Notebook Computers: E_{TEC_MAX} = (TEC_{BASE} + TEC_{MEMORY} + TEC_{GRAPHICS} + TEC_{STORAGE} + TEC_{INT_DISPLAY} + TEC_{SWITCHABLE} + TEC_{MOBILEWORKSTATION} + TEC_{>1G to < 10GLAN} + TEC_{10GLAN} + TEC_{MUX} + TEC_{RUGGED}) Where: ■ TEC_{BASE} is the Base allowance specified in Table 6; and, ■ TEC_{GRAPHICS} is the discrete graphics allowance as specified in Table 7, with the exception of systems with integrated graphics, which do not receive an allowance, or Desktops and Integrated Desktops with switchable graphics enabled by default, which receive an allowance through TEC_{SWITCHABLE}; and, ■ TEC_{MEMORY}, TEC_{STORAGE}, TEC_{INT_DISPLAY}, TEC_{SWITCHABLE}, TEC_{MOBILEWORKSTATION}, TEC_{>1G to < 10GLAN}, TEC_{10GLAN}, TEC_{MUX} and TEC_{RUGGED} are adder allowances as specified in Table 7 and Equations 3 and 4 for enhanced performance integrated display and touch allowance.		P															
	Table 6: Base TEC (TEC_{BASE}) Allowances for Notebooks, Desktops, and Integrated Desktops <table><tr><th>Category</th><th>Power Supply Rated Output</th><th>Base Allowance (kWh)</th></tr><tr><td>Notebook</td><td>All Outputs</td><td>7.8</td></tr><tr><td>Integrated Desktop – Category 1</td><td>< 120 watts</td><td>8.5</td></tr><tr><td>Integrated Desktop – Category 2</td><td>≥ 120 watts</td><td>18.9</td></tr><tr><td>Desktop</td><td>All Outputs</td><td>40.5</td></tr></table>	Category	Power Supply Rated Output	Base Allowance (kWh)	Notebook	All Outputs	7.8	Integrated Desktop – Category 1	< 120 watts	8.5	Integrated Desktop – Category 2	≥ 120 watts	18.9	Desktop	All Outputs	40.5	TEC _{BASE} =18.9	—
Category	Power Supply Rated Output	Base Allowance (kWh)																
Notebook	All Outputs	7.8																
Integrated Desktop – Category 1	< 120 watts	8.5																
Integrated Desktop – Category 2	≥ 120 watts	18.9																
Desktop	All Outputs	40.5																

Table 7: Functional Adder Allowances for Desktop, Integrated Desktop, Thin Client, and Notebook Computers						—
Function		Desktop	Integrated Desktop		Notebook	
TEC _{MEMORY} (kWh) ⁱⁱⁱ		0.15 × GB		0.12 × GB		
TEC _{GRAPHICS} (kWh) ^{iv,v}		$29.4 \times \tanh(0.008 \times \text{FB_BW} - 0.03) + 11 + (0.011 \times \text{FB_BW})$		$14.7 \times \tanh(0.008 \times \text{FB_BW} - 0.03) + 5.5 + (0.0055 \times \text{FB_BW})$		
TEC _{SWITCHABLE} (kWh) ^{vi}		7.0		N/A		
TEC _{STORAGE} (kWh) ^{vii}	3.5" HDD	12.0		0.8		
	2.5" HDD	2.1				
	Hybrid HDD/SSD	0.8				
	SSD (including M.2 port solutions)	0.4		0.4		
TEC _{INT_DISPLAY} (kWh) ^{viii}	A < 190	N/A	$[(3.43 \times r) + (0.148 \times A) + 1.30] \times (1 + EP + T)$	$8.76 \times 0.20 \times (1 + EP + T) \times (0.43 \times r + 0.0263 \times A)$		
	190 ≤ A < 210		$[(3.43 \times r) + (0.018 \times A) + 26.1] \times (1 + EP + T)$			
	210 ≤ A < 315		$[(3.43 \times r) + (0.078 \times A) + 13.2] \times (1 + EP + T)$			
	A ≥ 315		$[(3.43 \times r) + (0.156 \times A) - 11.3] \times (1 + EP + T)$			
TEC _{MOBILEWORKSTATION} (kWh) ^{ix}		N/A		4.4		
TEC _{>1G to <10GLAN} (kWh) ^x		4.0		N/A		
TEC _{10GLAN} (kWh) ^{xi}		18.0		N/A		
TEC _{MUX} (kWh) ^{xii}		N/A	12.2	5.2		
TEC _{RUGGED} (kWh) ^{xiii}		N/A		5.6		
	iii. TEC _{MEMORY} Adder: GB applies per GB installed in the system.				TEC _{MEMORY} =0.15 × GB. TEC _{MEMORY} =0.15 × 64 =9.6	P
	iv. TEC _{GRAPHICS} Adder: Applies to only the first dGfx installed in the system, but not Switchable Graphics.					N/A
	v. FB_BW: Is the display frame buffer bandwidth in gigabytes per second (GB/s). This is a manufacturer declared parameter and should be calculated as follows: (Data Rate [Mhz] × Frame Buffer Data Width [bits]) / (8 × 1000)					N/A
	vi. TEC _{SWITCHABLE} Incentive: Applies to automated switching that is enabled by default in Desktops and Integrated Desktops.					N/A
	vii. TEC _{STORAGE} Adder: Applies once if system has an Additional Internal Storage device.					N/A
	viii. TEC _{INT_DISPLAY} Adder: EP is the Enhanced Performance Display allowance calculated per Equation 3; T is touch functionality calculated per Equation 4; r is the Screen resolution in megapixels; and A is viewable screen area in square inches. This adder may be applied for each display if there are multiple displays in the system which are enabled as-shipped and in testing.				TEC _{INT_DISPLAY} =[(3.43×r)+(0.078×A)+13.2] × (1+EP+T); EP=0; T=0; r=1920x1080/1000000 =2.0736 A= 527.04×296.46/645.16=242.182 TEC _{INT_DISPLAY} =[(3.43×2.0736)+(0.078×242.1822)+13.2] × (1+0+0)=39.203	P
	ix. TEC _{MOBILEWORKSTATION} Adder: Applies once if the system meets the full Mobile Workstation definition in Section 1.					N/A
	x. TEC _{>1G to < 10GLAN} Adder: Applies once if system contains an Ethernet port with rated throughput greater than 1Gb/s but less than 10 Gb/s.					N/A
	xi. TEC _{10GLAN} Adder: Applies once if the system contains a 10 Gb/s Ethernet port.					N/A

	xii. TEC_{MUX} : Only applies to products with both integrated and discrete graphics that are driven by a MUX device on the motherboard.		—								
	xiii TEC_{RUGGED} : Applies only to Notebook Computers that meet the Ruggedized Notebook Computer definition.		—								
	Equation 3: Calculation of Allowance for Enhanced-performance Integrated Displays $EP = 0.3$ for all Enhanced Performance Displays		N/A								
	Equation 4: Calculation of Allowance for Integrated Displays with Touch Functionality $T = 0.17$ for all Displays with Touch Functionality		N/A								
3.6	Requirements for Slates/Tablets and Portable All-In-One Computers	Not Slates/Tablets or Portable All-In-One Computers	—								
3.6.1	Slates/Tablets and Portable All-In-One Computers shall follow all of the requirements for Notebook Computers in Section 3.5 above, including calculations of the following:		N/A								
	i. Calculated Typical Energy Consumption (E_{TEC}), using Equation 1 with the Notebook Computer Mode Weightings from Table 5.		N/A								
	ii. Calculated Maximum Allowed Typical Energy Consumption (E_{TEC_MAX}), using Equation 2 with the appropriate base Notebook Computer allowance from Table 6, and applicable Notebook Computer functional adder allowances from Table 7.		N/A								
3.7	Requirements for Workstations	Not workstation	—								
3.7.1	Weighted power consumption (P_{TEC}) as calculated per Equation 5 shall be less than or equal to the maximum weighted power consumption requirement (P_{TEC_MAX}) as calculated per Equation 6.		N/A								
	Equation 5: P_{TEC} Calculation for Workstations $P_{TEC} = P_{OFF} \times T_{OFF} + P_{SLEEP} \times T_{SLEEP} + P_{LONG_IDLE} \times T_{LONG_IDLE} + P_{SHORT_IDLE} \times T_{SHORT_IDLE}$ Where: P_{OFF} = Measured power consumption in Off Mode (W); P_{SLEEP} = Measured power consumption in Sleep Mode (W); P_{LONG_IDLE} = Measured power consumption in Long Idle Mode (W); P_{SHORT_IDLE} = Measured power consumption in Short Idle Mode (W); and T_{OFF}, T_{SLEEP}, T_{LONG_IDLE}, and T_{SHORT_IDLE} are mode weightings as specified in Table 8.		N/A								
	Table 8: Mode Weightings for Workstations <table border="1"> <thead> <tr> <th>T_{OFF}</th><th>T_{SLEEP}</th><th>T_{LONG_IDLE}</th><th>T_{SHORT_IDLE}</th></tr> </thead> <tbody> <tr> <td>10%</td><td>35%</td><td>20%</td><td>35%</td></tr> </tbody> </table>	T_{OFF}	T_{SLEEP}	T_{LONG_IDLE}	T_{SHORT_IDLE}	10%	35%	20%	35%		—
T_{OFF}	T_{SLEEP}	T_{LONG_IDLE}	T_{SHORT_IDLE}								
10%	35%	20%	35%								

	Equation 6: P_{TEC_MAX} Calculation for Workstations $P_{TEC_MAX} = 0.28 \times (P_{MAX} + N_{HDD} \times 5)$ Where: P_{MAX} = Measured maximum power consumption (W) N_{HDD} = Number of installed hard disk drives (HDD) or solid-state drives (SSD)		N/A								
3.7.2	Active State Benchmark: To be ENERGY STAR certified, a Workstation must be submitted for certification with the following information disclosed in full:		N/A								
	i. LINPAC benchmark test results, compiler optimizations, and total energy consumed over the duration of the test; and		N/A								
	ii. SPEC viewperf benchmark test results, configuration options, total duration of the test, and total energy consumed over the duration of the test.		N/A								
3.7.3	Desktop Workstations: Products marketed as workstations may be ENERGY STAR certified under the Desktop requirements in Section 3.5 instead of the Workstation requirements in Section 3.7, at the Partner's option. EPA will identify Workstations certified as Desktops as "Desktops" in all ENERGY STAR marketing materials, on certified product lists, etc.		N/A								
3.8	Requirements for Thin Clients	Not Thin Clients	—								
3.8.1	Calculated Typical Energy Consumption (E_{TEC}) per Equation 1 shall be less than or equal to the Maximum TEC Requirement (E_{TEC_MAX}), as calculated per Equation 7, subject to the following requirements.		N/A								
	i. Allowances can only be applied if the corresponding adders are enabled by default.		N/A								
	ii. Thin Clients shall utilize the mode weightings in Table 9 when calculating E_{TEC} .		N/A								
	iii. For Thin Clients that lack a discrete System Sleep Mode, Long Idle State power (P_{LONG_IDLE}) may be used in place of Sleep Mode Power (P_{SLEEP}) in Equation 1 so long as the system meets the Thin Client TEC allowance. In such instances, ($P_{SLEEP} \times T_{SLEEP}$), is replaced by ($P_{LONG_IDLE} \times T_{SLEEP}$); Equation 1 remains otherwise unchanged.		N/A								
	Table 9: Mode Weightings for Thin Clients <table border="1"> <thead> <tr> <th>T_{OFF}</th><th>T_{SLEEP}</th><th>T_{LONG_IDLE}</th><th>T_{SHORT_IDLE}</th></tr> </thead> <tbody> <tr> <td>45%</td><td>5%</td><td>15%</td><td>35%</td></tr> </tbody> </table>	T_{OFF}	T_{SLEEP}	T_{LONG_IDLE}	T_{SHORT_IDLE}	45%	5%	15%	35%		—
T_{OFF}	T_{SLEEP}	T_{LONG_IDLE}	T_{SHORT_IDLE}								
45%	5%	15%	35%								

	Equation 7: Calculation of E_{TEC_MAX} for Thin Clients $E_{TEC_MAX} = TEC_{BASE} + TEC_{GRAPHICS} + TEC_{WOL} + TEC_{INT_DISPLAY}$ Where: TEC_{BASE} is the Base Allowance specified in Table 11; $TEC_{GRAPHICS}$ is the Discrete Graphics allowance specified in Table 11 if applicable; TEC_{WOL} is the Wake-on-LAN allowance specified in Table 11 if applicable; $TEC_{INT_DISPLAY}$ is the Integrated Display allowance for Integrated Desktops specified in Table 7 if applicable; and		—								
	Table 11: Adder Allowances for Thin Clients <table><tr><th>Adder</th><th>Allowance (kWh)</th></tr><tr><td>TEC_{BASE}</td><td>31</td></tr><tr><td>$TEC_{GRAPHICS}$</td><td>36</td></tr><tr><td>TEC_{WOL}</td><td>2</td></tr></table>	Adder	Allowance (kWh)	TEC_{BASE}	31	$TEC_{GRAPHICS}$	36	TEC_{WOL}	2		—
Adder	Allowance (kWh)										
TEC_{BASE}	31										
$TEC_{GRAPHICS}$	36										
TEC_{WOL}	2										
4	TESTING		—								
4.1	Test Methods		—								
4.1.1	When testing Computer products, the test methods identified in Table 12 shall be used to determine ENERGY STAR certification.		P								
	Table 12: Test Methods for ENERGY STAR Certification <table><tr><th>Product Type or Component</th><th>Test Method</th></tr><tr><td>All</td><td>ENERGY STAR Test Method for Computers, Rev. January 2025</td></tr></table>	Product Type or Component	Test Method	All	ENERGY STAR Test Method for Computers, Rev. January 2025		—				
Product Type or Component	Test Method										
All	ENERGY STAR Test Method for Computers, Rev. January 2025										
4.2	Number of Units Required for Testing		—								
4.2.1	Representative Models shall be selected for testing per the following requirements:		P								
	i. For certification of an individual product configuration, the unique configuration that is intended to be marketed and labeled as ENERGY STAR is considered the Representative Model.		N/A								
	ii. For certification of a Product Family of all product types, with the exception of Workstations, product configurations that represent the worst-case power consumption for each product category within the family are considered Representative Models. When submitting Product Families, manufacturers continue to be held accountable for any efficiency claims made about their products, including those not tested or for which data were not reported. This includes ensuring that all models shipped as ENERGY STAR certified within the product family maintain the same power management settings when testing the Representative Model(s).	Nirvana A800/900 Edition is considered as application.	P								
4.2.2	A single unit of each Representative Model shall be selected for testing.		P								

4.2.3	All units/configurations for which a Partner is seeking ENERGY STAR certification, must meet the ENERGY STAR requirements. However, if a Partner wishes to certify configurations of a model for which non-ENERGY STAR certified alternative configurations exist, the Partner must assign the certified configurations an identifier in the model name/number that is unique to ENERGY STAR certified configurations. This identifier must be used consistently in association with the certified configurations in marketing/sales materials and on the ENERGY STAR list of certified products (e.g. model A1234 for baseline configurations and A1234-ES for ENERGY STAR certified configurations).		P
4.3	International Market Certification		—
4.3.1	Products shall be tested for certification at the relevant input voltage/frequency combination for each market in which they will be sold and promoted as ENERGY STAR.	Major markets: ☒ North America ☒ Japan ☒ Taiwan ☒ Switzerland	P
	Note: Partner must ensure that all configurations certified as ENERGY STAR continue to meet the certification criteria through subsequent firmware, software, or other changes to the certified product.		
4.4	Customer Software and Management Service Pre-Provisioning		—
4.4.1	If a manufacturing Partner is hired by a customer to load a custom image on an ENERGY STAR certified computer, the Partner shall take the following steps:		N/A
	i. Inform the customer that their product may not meet ENERGY STAR with the custom image. A sample notification letter is available on the ENERGY STAR Web site.		N/A
	ii. Encourage the customer to test the product for ENERGY STAR compliance.		N/A

TABLE 3.2		Power Supply Test Results					P
Identify No.	Manufacturer	Model number	Input rating	Output rating			
1)	Hunan Dajing Power Technology Co.,Ltd.	DJ120M-190632A5	100-240V~, 50/60Hz, 2.0A MAX	19.0V=6.32A 120.08W			
Measurement results for IPS							
Identify No.	Nameplate Output Power	Power Factor @ 50% rated output	Efficiency @ 10% rated output	Efficiency @ 20% rated output	Efficiency @ 50% rated output	Efficiency @ 100% rated output	Meets ENERGY STAR Requirements? (Yes/No)
--	--	--	--	--	--	--	--
Remark:							

TABLE	Categories Configuration				
Product Name	NIRVANA ONE 23.8''	Model No.	Nirvana A800/900		
Representative test model(s)	Nirvana A800/900				
Computer Configuration					
Configuration type		Integrated Desktop Computers	--	--	--
Processor Maker		Intel	--	--	--
Processor Type/Model		i7-13620H	--	--	--
Processor Speed per Core (GHz):		2.4	--	--	--
Number of CPU Cores per Processor Package:		10	--	--	--
Number of Discrete Processor Packages Installed		1	--	--	--
Operating System and Version		Windows 11 Home	--	--	--
Installed Hard Drives		1	--	--	--
Number of Hard Disk Drives		0	--	--	--
RPMs for Hard Disk Drives		--	--	--	--
Number of Solid State Drives		1	--	--	--
Total Hard Drive Storage (GB)		500	--	--	--
System Memory (GB)		64	--	--	--
Number of DIMMs Installed		2	--	--	--
Size of Display (Notebooks and Integrated Computers, Only)		23.8inch	--	--	--
Graphics Card (Gfx) Brand		--	--	--	--
Gfx Model Number		--	--	--	--
Number of Gfx		--	--	--	--
Number of discrete Gfx (dGfx)		--	--	--	--
dGfx Frame Buffer (FB) bandwidth		--	--	--	--
Classification of dGfx (G2, G3, G4, G5, G6 or G7)		--	--	--	--
Ethernet capable system? (Y/N)		Y	--	--	--

Remark:

- 1). Y/N means Yes / No
- 2). Categories of dGfx:

Category	FB_BW	Category	FB_BW
G1	$FB_BW \leq 16$	G5	$96 < FB_BW \leq 128$
G2	$16 < FB_BW \leq 32$	G6	$FB_BW > 128$ (with FB Data Width < 192 -bit)
G3	$32 < FB_BW \leq 64$	G7	$FB_BW > 128$ (with FB Data Width ≥ 192 -bit)
G4	$64 < FB_BW \leq 96$		

- 3). Frame Buffer bandwidth = (Data Rate x Data Width) / (8 x 1000)
 - frame buffer bandwidth is expressed in GigaBytes/second (GB/s);
 - data rate is the effective memory data frequency in MHz
 - data width is the memory frame buffer (FB) data width expressed in bits (b)

TABLE 3.5, 3.6	TEC test for ☐ Desktop ☒ Integrated Desktop ☐ Notebook Computers ☐ Slates/Tablets ☐ Portable All-In-One Computers					P
	Tested model number			Nirvana A800/900		--
	Series number			None (Engineering sample)		--
	Ambient (°C) (18°C to 28°C).....			24°C		--
	Relative Humidity (%R.H) (10% to 80%)			55%		--
	Air speed			0.1m/s		--
	Test voltage			(1) 115V/60Hz; (2) 230V/50Hz (3) 100V/60Hz; (4) 100V/50Hz		--
Item	Maximum Requirements					
	Integrated Desktop Computers	--	--	--	--	
ALLOWANCE PSU	--	--	--	--	--	
ALLOWANCE PROXY	--	--	--	--	--	
TEC _{BASE}	18.9	--	--	--	--	
TEC _{MEMORY}	9.6	--	--	--	--	
TEC _{GRAPHICS}	--	--	--	--	--	
TEC _{STORAGE}	--	--	--	--	--	
TEC _{INT_DISPLA}	39.203	--	--	--	--	
TEC _{SWITCHABL}	--	--	--	--	--	
TEC _{MOBILEWORKST ATION}	--	--	--	--	--	
TEC _{>1G to < 10GLAN}	--	--	--	--	--	
TEC _{10GLAN}	--	--	--	--	--	
E _{TEC_MAX}	67.703	--	--	--	--	

Item	Measured Results				
--	Integrated Desktop Computers		--	--	--
Power in Off P_{OFF} (W)	WOL Enabled:				
	100V/ 50Hz:	0.717	--	--	--
	100V/ 60Hz:	0.717	--	--	--
	115V/ 60Hz:	0.722	--	--	--
	230V/ 50Hz:	0.732	--	--	--
	WOL Disabled:				
	100V/ 50Hz:	0.715	--	--	--
	100V/ 60Hz:	0.716	--	--	--
	115V/ 60Hz:	0.718	--	--	--
	230V/ 50Hz:	0.726	--	--	--
Power in Sleep P_{SLEEP} (W)	WOL Enabled:				
	100V/ 50Hz:	1.212	--	--	--
	100V/ 60Hz:	1.213	--	--	--
	115V/ 60Hz:	1.224	--	--	--
	230V/ 50Hz:	1.235	--	--	--
	WOL Disabled:				
	100V/ 50Hz:	1.211	--	--	--
	100V/ 60Hz:	1.213	--	--	--
	115V/ 60Hz:	1.223	--	--	--
	230V/ 50Hz:	1.232	--	--	--
Power in Short Idle P_{SHORT_IDLE} (W)	100V/ 50Hz:	19.135	--	--	--
	100V/ 60Hz:	19.190	--	--	--
	115V/ 60Hz:	19.354	--	--	--
	230V/ 50Hz:	19.663	--	--	--
Power in long Idle P_{LONG_IDLE} (W)	100V/ 50Hz:	5.404	--	--	--
	100V/ 60Hz:	5.441	--	--	--

	115V/ 60Hz:	5.567	--	--	--
	230V/ 50Hz:	5.922	--	--	--
Calculated (WOL Enabled) E _{TEC} (kWh/year)	100V/ 50Hz:	60.741	--	--	--
	100V/ 60Hz:	60.921	--	--	--
	115V/ 60Hz:	61.513	--	--	--
	230V/ 50Hz:	62.692	--	--	--
Remark:					

TABLE 3.7	Weighted power consumption test for Workstations			N/A
	Tested model number.....:			--
	Series number			--
	Ambient (°C) (18°C to 28°C)			--
	Relative Humidity (%R.H) (10% to 80%)			--
	Air speed			--
	Test voltage	(1) 115V / 60Hz; (2) 230V / 50Hz (3) 100V / 60Hz; (4) 100V / 50Hz		--
Item	Measured Results			
	115V / 60Hz	230V / 50Hz	100V / 60Hz	100V / 50Hz
Power in Off P _{OFF} (W)	WOL Disabled: WOL Enabled:	WOL Disabled: WOL Enabled:	WOL Disabled: WOL Enabled:	WOL Disabled: WOL Enabled:
Power in Sleep P _{SLEEP} (W)	WOL Disabled: WOL Enabled:	WOL Disabled: WOL Enabled:	WOL Disabled: WOL Enabled:	WOL Disabled: WOL Enabled:
Power in Long Idle P _{LONG_IDLE} (W)				
Power in Short Idle P _{SHORT_IDLE} (W)				
Maximum Power P _{MAX} (W)				
Number of HDD or SSD N _{HDD}				
Calculated P _{TEC_MAX}				
Maximum allowed P _{TEC}				
Energy consumed of Linpack (Wh)				
Energy consumed of SPECviewperf (Wh)				
Remark:				

TABLE 3.8		Power consumption test for Small-scale Servers			N/A
	Tested model number				--
	Series number				--
	Ambient (°C) (18°C to 28°C)				--
	Relative Humidity (%R.H) (10% to 80%) :				--
	Air speed				--
	WOL from Off is enabled by default? :	☐ Yes ☐ No			--
	Test voltage	(1) 115V/60Hz; (2) 230V/50Hz (3) 100V/60Hz; (4) 100V/50Hz			--
Item	Maximum Requirements				
P _{OFF_BASE} (W)					
P _{OFF_WOL} (W)					
Calculated P _{OFF_MAX} (W)					
	Measured Results				
	115V / 60Hz	230V / 50Hz	100V / 60Hz	100V / 50Hz	
Power in Off (P _{OFF})					
Item	Maximum Requirements				
P _{IDLE_BASE}					
Number of installed storage devices N					
P _{IDLE_HDD}					
P _{EEE}					
	Measured Results				
	115V / 60Hz	230V / 50Hz	100V / 60Hz	100V / 50Hz	
Power in long Idle P _{LONG_IDLE} (W)					
Remark:					

TABLE 3.9		Power consumption test for Thin Clients			N/A
	Tested model number :				--
	Series number :				--
	Ambient (°C) (18°C to 28°C) :				--
	Relative Humidity (%R.H) (10% to 80%) :				--
	Air speed :				--
	WOL from Off is enabled by default? :				--
	WOL from Sleep is enabled by default? :		☐ Yes ☐ No		--
	Test voltage :		(1) 115V/60Hz; (2) 230V/50Hz (3) 100V/60Hz; (4) 100V/50Hz		--
Item		Maximum Requirements			
TEC _{BASE}					
TEC _{GRAPHICS}					
TEC _{WOL}					
TEC _{INT_DISPLAY}					
TEC _{EEE}					
E _{TEC_MAX}					
Item		Measured Results			
		115V / 60Hz	230V / 50Hz	100V / 60Hz	100V / 50Hz
Power in Off P _{OFF} (W)					
Power in Sleep P _{SLEEP} (W)					
Power in Long Idle P _{LONG_IDLE} (W)					
Power in Short Idle P _{SHORT_IDLE} (W)					
Calculated E _{TEC} (kWh/year)					
Remark:					

TEST EQUIPMENT					
Instrument I.D.	Instrument Type	Range Used	Make and Model **	CALIBRATION DATE	
				Last	Due
ACSS-0468	Stop Watch	Timer:(1s, 10s, 1min, 1h)	TF, PC396	2026-04-10	2027-04-09
ACSS-0485	Thermo-Hygrograph	-40~70 degree C; 20%~90%R.H	Smart Sensor, AR807	2026-08-08	2027-08-07
ACSS-0507	Digital Power Meter	0~600V,0~20A,1200W	YOKOGAWA; WT310E	2026-04-09	2027-04-08
ACSS-0407	AC Power Source	5KVA	All Power, APW-150N	2026-04-09	2027-04-08
ACSS-0482	Anemometer	0.2~20m/s	KANOMAX, 6006-0C	2026-08-08	2027-08-07
ACSS-0044	Luminance Meter	0.01~99900 lx	Minolta, LS-110	2026-04-25	2027-04-24

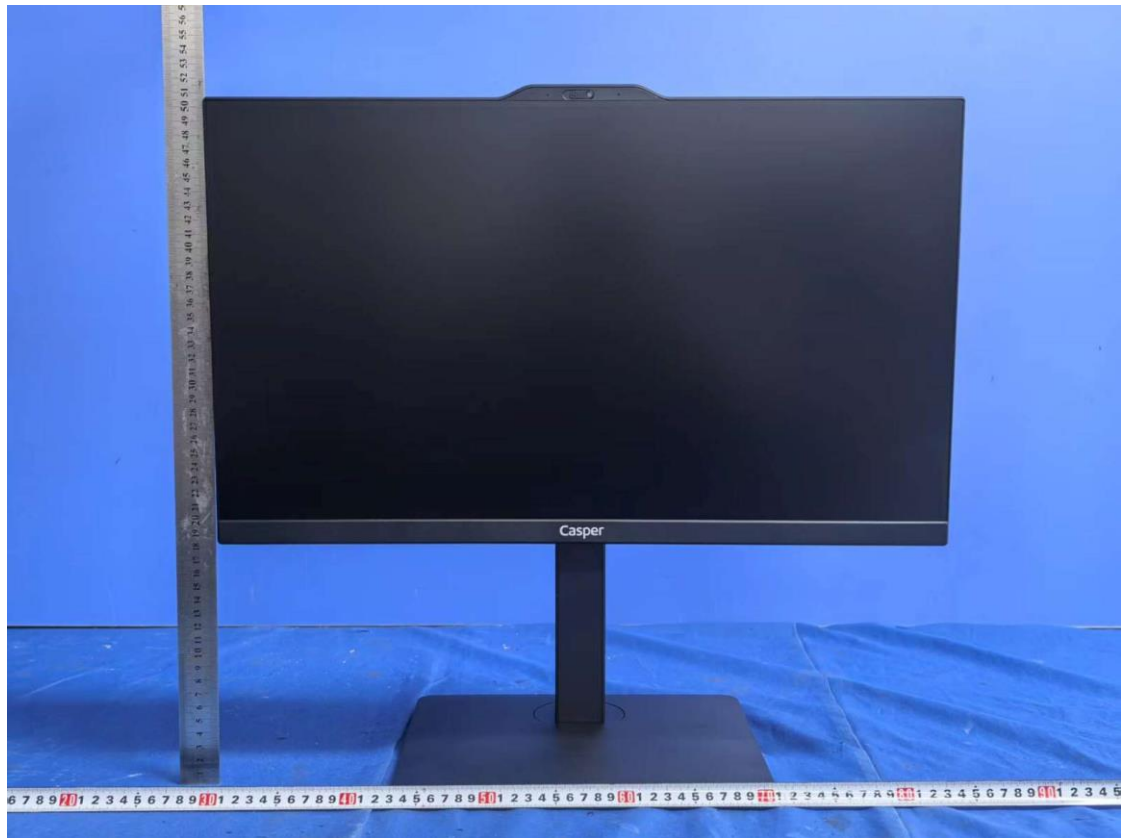


Fig. 1 – Overview (1)



Fig. 2 – Overview (2)

**Fig. 3 – Port diagram (1)****Fig. 4 – Port diagram (2)**

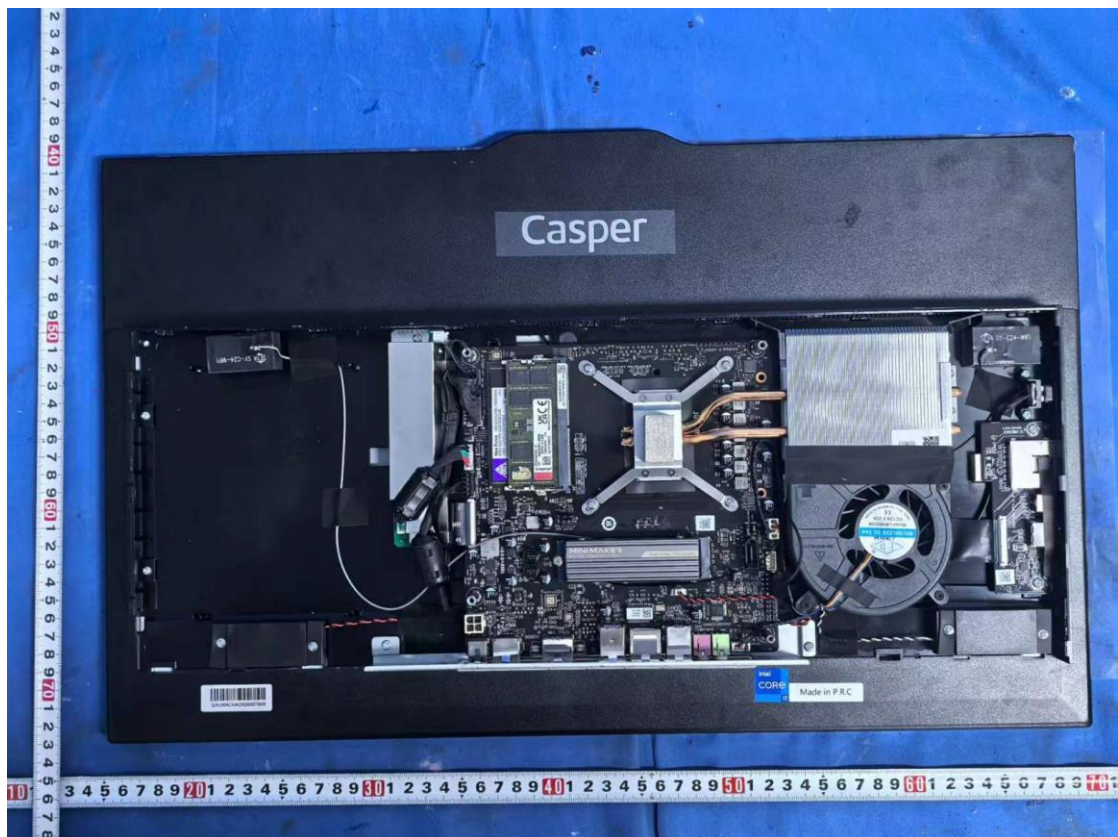


Fig. 5 – Internal view

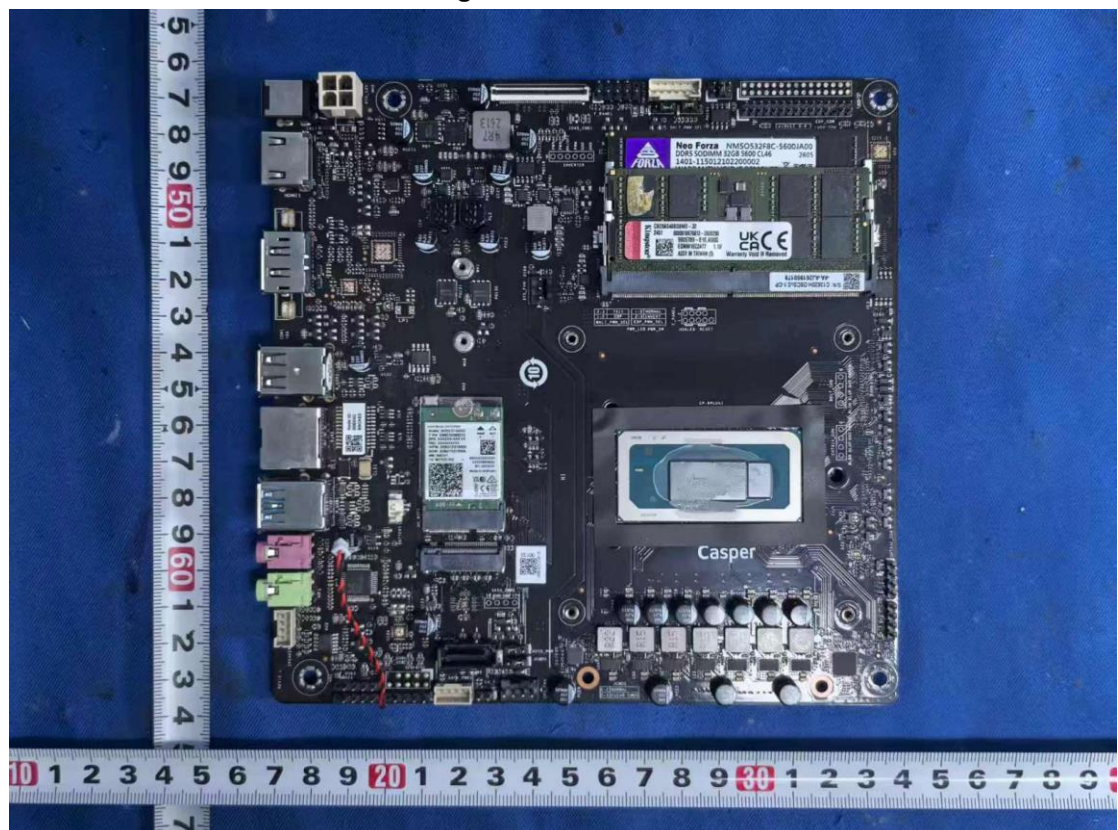


Fig. 6 – Top view of mother board (1)



Fig. 7 – Rear view of mother board (2)



Fig. 8 – Power supply view model: DJ120M-190632A5

SPECIFICATION FOR APPROVAL

DESCRIPTION:	23.8" FHD LCD Module
CUSTOMER:	
Product No:	P238NHF1P-R2A
Released Date:	2026 / Feb.
Revision:	1.0



1.4 General Specification

Parameter	Specification	Unit	Remarks
Screen Size	23.8	inch	Diagonal
Active area	527.04(H) × 296.46(V)	mm	
Number of pixels	1920(H) × 1080(V)	pixels	
Pixel pitch	0.2745 (H) × 0.2745(V)	mm	
Pixel arrangement	RGB Vertical stripe	-	
Display colors	16.78M	colors	
Display mode	Normally Black	-	
Dimensional outline Without PCBA	535.0 (H) × 313.0 (V) × 9.3(D) Max.	mm	
Dimensional outline With PCBA	535.0 (H) × 313.0 (V) × 12.0(D), typ	mm	
Luminance, White	250	cd/m ²	
Color Gamut	72% of NTSC		Typ.
Surface Treatment	Haze 25%, 3H		
Back-light	Horizontal arranged, 1-LED Lighting Bar type		

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