



TEST REPORT

ECODESIGN REQUIREMENTS FOR COMPUTERS AND COMPUTER SERVERS

Report reference No.	QCT24KR-2401S-01
Date of issue.....	2025-01-15
Testing laboratory	Shenzhen QC Testing Laboratory Co., Ltd.
Address.....	East of 1/F., Building E, Xinghong Science Park, No.111, ShuiKu Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Testing location.....	as above
Applicant.....	Casper Bilgisayar Sistemleri A.Ş.
Address.....	Casper Plaza Fatih Sultan Mehmet Mahallesi Balkan Caddesi No: 47 34771 Umraniye
Standard	COMMISSION REGULATION (EU) No 617/2013 Desktop and notebook computers — Measurement of energy consumption in accordance with EN 62623:2013; Measuring the energy consumption of personal computing products in accordance with ECMA-383 (3rd Edition / December 2010).
Test Report Form No.....	QCT
TRF originated by.....	Shenzhen QC Testing Laboratory Co., Ltd.
Copyright blank test report.....	This test report is based on the content of the internal test program. The test program considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by Shenzhen QC Testing Laboratory Co., Ltd. Shenzhen QC Testing Laboratory Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.
Test procedure	ErP test report
Non-standard test method	None
National deviations	None
Number of pages (Report)	10 pages
Number of pages (Attachments).....	No
Compiled by :	Approved by :
Orion Yang	Kendy Wang





Clause	Requirement-Test	Measuring result - Remark	Verdict
Type of test object: All-in-one PC			
Trademark: Casper			
Model and/or typ reference: Nirvana A800/A900-R Series			
Rating(s): 19V $\overline{\text{III}}$ 9.47A (Power adapter model: SOY-1900947-454)			
Manufacturer: Casper Bilgisayar Sistemleri A.Ş.			
Address: Casper Plaza Fatih Sultan Mehmet Mahallesi Balkan Caddesi No: 47 34771 Umraniye			
Factory: WEIBU Information Inc B101, Productivity building, No.5, Gaoxinzhong 2nd Road, Science and Technology Park, Nanshan District, Shenzhen, China			
Characteristic data Weight: 6.55kg			
Purpose of the product: 1. The product comes in a variety of colors of the shell and different shapes of the base. 2. The user manual specified the relevant information for installation instruction.			



Clause	Requirement-Test	Measuring result - Remark	Verdict																		
1.2	E TEC, From 1 January 2016 E TEC = (8760/1 000) ×(0,55×P off + 0,05×P sleep + 0,40×P idle).		P																		
	The annual total energy consumption (E TEC in kWh/year) shall not exceed:		P																		
	For desktop computer and integrated desktop computer		P																		
	(a) Category A computer: 94,00;		N/A																		
	(b) Category B computer: 115,00;		N/A																		
	(c) Category C computer: 134,00;		N/A																		
	(d) Category D computer: 150,00.	E _{TEC} =(8760/1000)×(0.55×P _{off} +0.05×Sleep+0.40×P _{idle})= (8760/1000)×(0.55×0.79+0.05×0.84+0.40×37.0) =133.82kWh/year CPU: Intel i5-13420H 8 Core 4.6GHz	P																		
	The following capability adjustments apply:		P																		
	(a) memory: 1 kWh/year per GB over base, where base memory is 2 GB (for category A, B and C computers) and 4 GB (for category D computers);	8GB*2	P																		
	(b) additional internal storage: 25 kWh/year;		P																		
	(c) discrete television tuner: 15 kWh/year;		N/A																		
	(d) discrete audio card: 15 kWh/year;		N/A																		
	(e) discrete graphics card (dGfx) for the first and each additional discrete graphics card (dGfx):		N/A																		
	<table><tr><td></td><td>dGfx category</td><td>TEC allowance (kWh/year)</td></tr><tr><td rowspan="7">First discrete graphics card (dGfx)</td><td>G1</td><td>34</td></tr><tr><td>G2</td><td>54</td></tr><tr><td>G3</td><td>69</td></tr><tr><td>G4</td><td>100</td></tr><tr><td>G5</td><td>133</td></tr><tr><td>G6</td><td>166</td></tr><tr><td>G7</td><td>225</td></tr></table>		dGfx category	TEC allowance (kWh/year)	First discrete graphics card (dGfx)	G1	34	G2	54	G3	69	G4	100	G5	133	G6	166	G7	225		N/A
	dGfx category	TEC allowance (kWh/year)																			
First discrete graphics card (dGfx)	G1	34																			
	G2	54																			
	G3	69																			
	G4	100																			
	G5	133																			
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	G7	225																			
	<table><tr><td rowspan="7">Each additional discrete graphics card (dGfx)</td><td>G1</td><td>20</td></tr><tr><td>G2</td><td>32</td></tr><tr><td>G3</td><td>41</td></tr><tr><td>G4</td><td>59</td></tr><tr><td>G5</td><td>78</td></tr><tr><td>G6</td><td>98</td></tr><tr><td>G7</td><td>133</td></tr></table>	Each additional discrete graphics card (dGfx)	G1	20	G2	32	G3	41	G4	59	G5	78	G6	98	G7	133		N/A			
Each additional discrete graphics card (dGfx)	G1		20																		
	G2		32																		
	G3		41																		
	G4		59																		
	G5		78																		
	G6		98																		
	G7	133																			
	For notebook computer		N/A																		
	(a) Category A computer: 36,00;		N/A																		
	(b) Category B computer: 48,00;		N/A																		



Clause	Requirement-Test	Measuring result - Remark	Verdict																					
	(c) Category C computer: 80,50;		N/A																					
	The following capability adjustments apply:		N/A																					
	(a) memory: 0,4 kWh/year per GB over base, where base memory is 4 GB;		N/A																					
	(b) additional internal storage: 3 kWh/year;		N/A																					
	(c) discrete television tuner: 2,1 kWh/year;		N/A																					
	(d) discrete graphics card (dGfx) (for the first and each additional discrete graphics card (dGfx))		N/A																					
	<table><tr><td></td><td>dGfx category</td><td>TEC allowance (kWh/year)</td></tr><tr><td rowspan="7">First discrete graphics card (dGfx)</td><td>G1</td><td>12</td></tr><tr><td>G2</td><td>20</td></tr><tr><td>G3</td><td>26</td></tr><tr><td>G4</td><td>37</td></tr><tr><td>G5</td><td>49</td></tr><tr><td>G6</td><td>61</td></tr><tr><td>G7</td><td>113</td></tr></table>		dGfx category	TEC allowance (kWh/year)	First discrete graphics card (dGfx)	G1	12	G2	20	G3	26	G4	37	G5	49	G6	61	G7	113		N/A			
	dGfx category	TEC allowance (kWh/year)																						
First discrete graphics card (dGfx)	G1	12																						
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	G7	66																						
2	SLEEP MODE, From 1 July 2014		P																					
2.1	A product shall provide sleep mode and/or another condition that provides the functionality of sleep mode and which does not exceed the applicable power demand requirements for a sleep mode.		P																					
2.2	Power demand in sleep mode shall not exceed		P																					
	5,00 W in desktop computers and integrated desktop computers;	P sleep=0.84W	P																					
	and 3,00 W in notebook computers.		N/A																					
2.3	Desktop computers and integrated desktop computers where idle state power demand is less than or equal to 10,00 W are not required to have a discrete system sleep mode.	P idle=37.0W	P																					
2.4	Where a product is placed on the market with a WOL functionality enabled in sleep mode:		N/A																					
	(a) an additional allowance of 0,70 W can be applied;		N/A																					
	(b) it must be tested with a WOL functionality both enabled and disabled and must comply with both requirements.		N/A																					



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Clause	Requirement-Test	Measuring result - Remark	Verdict
2.5	Where a product is placed on the market without Ethernet capability, it shall be tested without WOL enabled.		N/a
3	LOWEST POWER STATE, From 1 July 2014		P
3.1	Power demand in the lowest power state shall not exceed 0,50 W.		P
3.2	A product shall provide a power state or mode which does not exceed the applicable power demand requirements for the lowest power state when it is connected to the mains power source.		P
3.3	Where a product is placed on the market with an information or status display, an additional allowance of 0,50 W can be applied.		N/A
4	OFF MODE, From 1 July 2014		P
4.1	Power demand in off mode shall not exceed 1,00 W.	P off =0.79W	P
4.2	A product shall provide off mode and/or another condition which does not exceed the applicable power demand requirements for off mode when it is connected to the mains power source.	Off mode provide.	P
4.3	Where a product is placed on the market with a WOL functionality enabled in off mode:		P
	(a) an additional allowance of 0,70 W can be applied;		P
	(b) it must be tested with a WOL functionality both enabled and disabled and must comply with both requirements.		P
4.4	Where a product is placed on the market without Ethernet capability, it shall be tested without WOL enabled.		N/A
5	INTERNAL POWER SUPPLY EFFICIENCY, From 1 July 2014		N/A
5.1	For desktop computer, integrated desktop computer, desktop thin client, workstation, and small- scale server		N/A
	All computer internal power supplies shall not perform at less than:		N/A
	(a) 85 % efficiency at 50 % of rated output power;		N/A
	(b) 82 % efficiency at 20 % and 100 % of rated output power;		N/A
	(c) power factor = 0,9 at 100 % of rated output power. Internal power supplies with a maximum rated output power of less than 75 W are exempt from the power factor requirement.		N/A
5.2	For computer servers		N/A
5.2.1	All multi-output (AC-DC) power supplies shall not perform at less than:		N/A
	(a) 85 % efficiency at 50 % of rated output;		N/A
	(b) 82 % efficiency at 20 % and 100 % of rated output.		N/A
5.2.2	All multi-output (AC-DC) power supplies shall not perform at less than:		N/A



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Clause	Requirement-Test	Measuring result - Remark	Verdict
	(a) power factor 0,8 at 20 % of rated output;		N/A
	(b) power factor 0,9 at 50 % of rated output;		N/A
	(c) power factor 0,95 at 100 % of rated output.		N/A
5.2.3	All single output (AC-DC) power supplies with rated output of not more than 500 W shall not perform at less than:		N/A
	(a) 70 % efficiency at 10 % of rated output;		N/A
	(b) 82 % efficiency at 20 % of rated output;		N/A
	(c) 89 % efficiency at 50 % of rated output;		N/A
	(d) 85 % efficiency at 100 % of rated output.		N/A
5.2.4	All single output (AC-DC) power supplies with rated output of not more than 500 W shall not perform at less than:		N/A
	(a) power factor 0,8 at 20 % of rated output;		N/A
	(b) power factor 0,9 at 50 % of rated output;		N/A
	(c) power factor 0,95 at 100 % of rated output.		N/A
5.2.5	All single output (AC-DC) power supplies with rated output greater than 500 W but not more than 1 000 W shall not perform at less than:		N/A
	(a) 75 % efficiency at 10 % of rated output;		N/A
	(b) 85 % efficiency at 20 % and 100 % of rated output;		N/A
	(c) 89 % efficiency at 50 % of rated output.		N/A
5.2.6	All single output (AC-DC) power supplies with rated output greater than 500 W but not more than 1 000 W shall not perform at less than:		N/A
	(a) power factor 0,65 at 10 % of rated output;		N/A
	(b) power factor 0,8 at 20 % of rated output;		N/A
	(c) power factor 0,9 at 50 % of rated output;		N/A
	(d) power factor 0,95 at 100 % of rated output.		N/A
5.2.7	All single output (AC-DC) power supplies with rated output of more than 1 000 W shall not perform at less than:		N/A
	(a) 80 % efficiency at 10 % of rated output;		N/A
	(b) 88 % efficiency at 20 % and 100 % of rated output;		N/A
	(c) 92 % efficiency at 50 % of rated output.		N/A
5.2.8	All single output (AC-DC) power supplies with rated output of more than 1 000 W shall not perform at less than:		N/A
	(a) power factor 0,8 at 10 % of rated output;		N/A
	(b) power factor 0,9 at 20 % of rated output;		N/A
	(c) power factor 0,9 at 50 % of rated output;		N/A
	(d) power factor 0,95 at 100 % of rated output.		N/A
6	POWER MANAGEMENT ENABLING, From 1 July 2014		P
	For desktop computer, integrated desktop computer and notebook computer		P



Clause	Requirement-Test	Measuring result - Remark	Verdict
6.2.1	The computer shall reduce the speed of any active 1 Gigabit per second (Gb/s) Ethernet network links when transitioning to sleep or off-with-WOL mode.		P
6.2.2	When in sleep mode, the response to 'wake events', such as those via network connections or user interface devices, should happen with a latency of ≤ 5 seconds from the initiation of a wake event to the system becoming fully usable including rendering of display.		P
6.2.3	The computer shall be placed on the market with the display sleep mode set to activate within 10 minutes of user inactivity.	Min. 1minute	P
6.2.4	A computer with Ethernet capability shall have the ability to enable and disable a WOL function, if available, for sleep mode. A computer with Ethernet capability shall have the ability to enable and disable WOL for off mode if WOL from off mode is supported.		P
6.2.5	Where a distinct sleep mode or another condition that provides sleep mode functionality exists, the mode shall be set to activate within 30 minutes of user inactivity. This power management function shall be activated before placing the product on the market.		P
6.2.6	Users shall be able to easily activate and deactivate any wireless network connection(s) and users shall be given a clear indication with a symbol, light or equivalent, when wireless network connection(s) have been activated or deactivated.		P

Picture of the product:







Casper B ilgisayar S istemleri. A.Ş.

NIRVANA ONE 23.8"

Model: Nirvana A800/A900-R Series

INPUT: 19VDC 9.47A



Label

End of Test Report