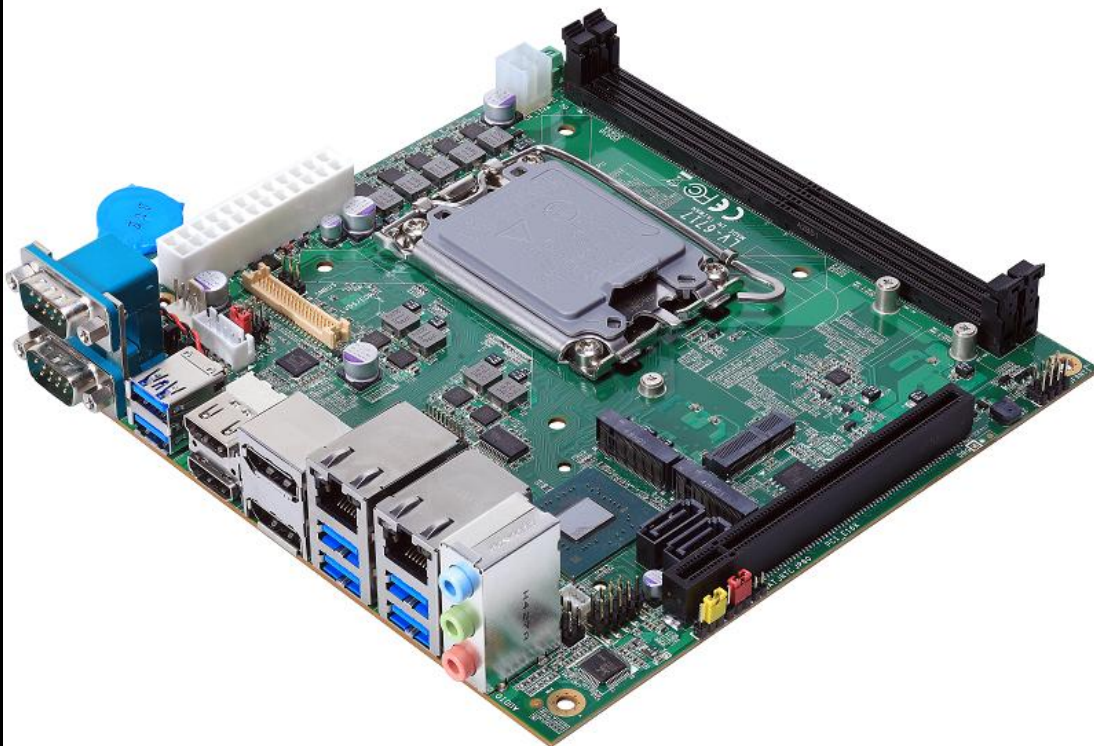


TEST REPORT



Board Name: LV-6717
Release Date: 2026/01/13
Test Engineer: Jerry_Yeh
Perry_Lin

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Model:	LV-6717	Rev	A	Release Date	2025/06/18
BIOS Rev.	671710			Memory	Kingston KVR64A52BS8-16 DDR6400 16G
CPU	Ultra 9 285			Power Supply	FSP HA550 550W
SSD	NVMe ADATA XPG GAMMIX S70 BLADE 512G			O.S	UEFI-Win11x64_24H2
ME FW:	1/30/2025 2505.7.2.0				
LAN / NVM	I226LM /2.25 I226V / 2.25				

1. BIOS Test

Item	Value	Result
Intel (VMX) Virtualization	Enabled	✓
CPU Speed-Step(EIST)	Enabled/Disabled	✓
CPU C-states	Enabled/Disabled	✓
CPU Turbo Mode	Enabled/Disabled	✓
SATA Hot-plug	Enabled/Disabled	✓
SATA Controller(s)	Enabled/Disabled	✓
Auto Wake on S5	Disable / Enabled: H:0.M:0.S:0	✓
Restore On Power Loss	Always On/ Always Off / Former State	✓
Watch Dog Timer Select	Disable / Enabled :30s	✓
Power On By RTC Alarm	Enabled/Disabled	✓
FAN Control	SMART/Manual	✓
Network Stack	Enabled/Disabled	✓
PXE Boot capability	UEFI	✓
HD AUDIO	Enabled/Disabled	✓
Wake on LAN from S3/S4/S5	Enabled/Disabled	✓
Timeout / NumLock State	1~10 / Off-On	✓
Console Redirection	Enabled/Disabled	✓
BIOS Level USB	Enabled/Disabled	✓
Secure Boot Configuration	Enabled/Disabled	✓
Set Supervisor Password	Enabled/Disabled	✓
Storage Security Features	Enabled/Disabled	✓
PCIe Resizable BAR Support	Enabled/Disabled	✓
GPIO Group 3 Configuration	Low/High	✓
Enable VMD controller	Enabled/Disabled	✓
VT-d setup menu	Supported	✓

1-1. Intel Function Test

Item	Value	Result
Intel AMT press to Enter MEBX Setup	DHCP Mode Enabled	✓
	DHCP Mode Disabled	✓
	Power ON	✓
	Power Down	✓
	Reset	✓
	Sleep	✓
	Hibernate	✓
	Reset to BIOS	✓
	Reset to PXE	✓

1-2. Firmware Flash Test

Item	EFI Shell flash utility Version (loop)
Update BIOS	✓
Update UUID	✓
BIOS VER. : 671710 SmbViewer VER : 1.1.4.0.(core base 2.3.0.0) ShellFlash64 VER : V4.78.2.0 Build 240506 Loop mode :10 times UUID : smbview.efi /type 1 ShellFlash64.efi /dus /patch	

1-3. PC Health Status

Item	Value	Result
PC Health Status		
System Temperature	37 °C	✓
CPU Temperature	30 °C	✓
CPU FAN Speed SMART /Manual	1695 /3813 RPM	✓
System FAN Speed SMART/Manual	3835 /8437 RPM	✓
CPUVCORE	0.976 V	✓
12V	12.144V	✓
5V	4.96V	✓
3.3V	3.312V	✓
VBAT	3.040V	✓

1-4. Front Panel Test

ITEM	Boot	EFI Shell	Windows 10	Windows 11
POWER BUTTON (4 seconds forced shutdown)	N/A	✓	✓	✓
POWER LED (Clear CMOS , LED is off)	✓	✓	✓	✓
POWER LED (4 seconds forced shutdown , LED is off)	✓	✓	✓	✓
HDD LED	N/A	N/A	✓	✓
RESET	N/A	✓	✓	✓
BUZZER	✓	N/A	N/A	N/A

1-5. Jumper Setting

Location	Enable	Disable		
Clear CMOS(1-2): JRTC	✓	✓	Start up Device not loss	
ATX Mode(2-3): JAT	✓	✓		
AT_MODE (1-2): JAT	✓	✓		
Location	RS232	5V	12V	
COM1 Port Power: JP2 (Pin9 Voltage)	✓	✓	✓	
COM2 Port Power: JP1 (Pin9 Voltage)	✓	✓	✓	
Location	Enable	Disable		
JVLCD(1-2 3-4 5-6)	✓	✓		

1-6. ACPI Function

TYPE	Item	Windows 11	Result
Power Button	Shutdown	✓	
	Sleep	✓	
	Hibernate	✓	
OS Function	Sing out	✓	
	Sleep	✓	
	Restart / Safe Mode	✓	
	Keyboard Standby	✓	
	Hibernate	✓	5 min
	Turn Off Hard Disks	✓	3 min
	System Stand By	✓	2 min
	Turn Off Monitor	✓	1 min
	S4 (STD) Hibernate	✓	
	S3 (STR) sleep	✓	
Suspend Wake Up External Device	Power Button	✓	
	USB Keyboard (S4)	✓	
	USB Mouse(S4)	✓	

2. CPU Test

SPEC	Processor	Total Cores	Performance-core Max Turbo Frequency	Processor Base Power	Cache	Result
SRQD4	Ultra9 285	8+16	5.6GHz	65W	40MB	✓
SRQCX	Ultra7 265	8+12	5.3GHz	65W	36MB	✓
SRQD3	Ultra9 285T	8+16	5.4GHz	35W	40MB	✓
SRQCS	Ultra7 265T	8+12	5.3GHz	35W	36MB	✓
SRQCZ	Ultra5 225	6+4	4.9GHz	65W	22MB	✓

2-1 DDR5 Memory Modules Test

No.	Vendor/Chip Brand	(V)	Part No. / Chip No.	CPU-Z		BurninTest v10.2	Result
				Size	Speed		
1	ADATA / SpecTek	1.1V	AD5U480016G-S / PT008-48B	16G	4800	✓	✓
2	Crucial / Micron	1.1V	CT32G48C40U5.M16A1 / 2BA45 D8BNJ	32G	4800	✓	✓
3	Kingston / SK Hynix	1.1V	KVR56U46BS8-16 / H5CG48AGBD X018 320V	16G	5600	✓	✓
4	Crucial / Micron	1.1V	CT16G56C46U5.M8G1 / 3CG45D8DDZ	16G	5600	✓	✓
5	Crucial / Micron	1.1V	CT16G56C46U5.M8D1 / 3TD45D8DKS	16G	5600	✓	✓
6	Crucial / Micron	1.1V	MTC8C1084S1UC56BAU BC / 2CA45Z8BSS	16G	5600	✓	✓
7	Kingston / Micron	1.1V	KVR64A52BS8-16 / 4VD45D8DKT	16G	6400	✓	✓
8	Kingston / Micron	1.1V	KVR64A52BS8-32 / 4UB7DD8FPZ	32G	6400	✓	✓
9	Kingston / Micron	1.1V	KVR64A52BD8-64 / 4UB7DD8FPZ	64G	6400	✓	✓

3. Power Consumption Test

ATX Power Test

Configuration								
CPU	Ultra 9 285				Memory	Kingston KVR64A52BD8-64 DDR6400 64Gx2		
BIOS	671710				OS	UEFI-Win11x64_24H2		
Storage	NVMe ADATA XPG GAMMIX S70 BLADE 512G				Power	FSP HA550 550W		
PANEL	AUO M170EG01							
Voltage	With PANEL				Without PANEL			
	UEFI		Windows 11 64bit		UEFI		Windows 11 64bit	
	Boot up		BurnIntest 10.2 (15min)		Boot up		BurnIntest 10.2 (15min)	
	Current (A)	Power (W)	Current (A)	Power (W)	Current (A)	Power (W)	Current (A)	Power (W)
12V	4.56	54.72	23.51	282.12	2.62	31.44	22.06	264.72
5V	4.57	22.85	6.01	30.05	3.43	17.15	5.04	25.2
3.3V	0.52	1.716	0.55	1.815	0.49	1.617	0.54	1.782
5VSB	0.78	3.9	0.59	2.95	0.72	3.6	0.54	2.7

DC IN Power Test

Configuration								
CPU	Ultra 9 265T				Memory	Kingston KVR64A52BD8-64 DDR6400 64Gx2		
BIOS	671710				OS	UEFI-Win11x64_24H2		
Storage	NVMe ADATA XPG GAMMIX S70 BLADE 512G				Power	MW LRS-600-12		
PANEL	M170EG01							
Voltage	With PANEL				Without PANEL			
	UEFI		Windows 11 64bit		UEFI		Windows 11 64bit	
	Boot up		BurnIn 10.2 (15min)		Boot up		BurnIn 10.2 (15min)	
	Current (A)	Power (W)	Current (A)	Power (W)	Current (A)	Power (W)	Current (A)	Power (W)
12V	5.48	65.76	14.3	171.6	3.21	38.52	12.23	146.76
19V	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24V	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

4. Graphics Test

Model Name	Max. Resolution	Turn off display 3min	monitor Audio out	S4 Resume	3DMark Prime95
HDMI1: Viewsonic VA1655	1920x1080@60Hz	✓	✓	✓	✓
HDMI2: MSI MD241P	1920x1080@60Hz	✓	✓	✓	✓
DP: Viewsonic VA3208-4K-MHD	3840x2160@60Hz	✓	✓	✓	✓
DP2 : ASUS VP327Q	3840x2160@60Hz	✓	✓	✓	✓
LVDS: AUO M170EG01	1280x1024@60Hz	✓	N/A	✓	✓
Dual Displays :					
HDMI 1 + HDMI 2	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + DP 1	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + DP 2	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
HDMI 2 + DP 1	1920x1080@60Hz	✓	✓	✓	✓
HDMI 2 + DP 2	1920x1080@60Hz	✓	✓	✓	✓
HDMI 2 + LVDS	1920x1080@60Hz	✓	✓	✓	✓
DP 1 + DP 2	3840 x 2160@60Hz	✓	✓	✓	✓
DP 1 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
DP 2 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
Triple Displays :					
HDMI 1 + HDMI 2 + DP 1	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + HDMI 2 + DP 2	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + HDMI 2 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
HDMI 1 + DP 1 + DP 2	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + DP 1 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
HDMI 2 + DP1 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
DP 1 + DP 2 + HDMI 2	1920x1080@60Hz	✓	✓	✓	✓
DP 1 + DP 2 + LVDS	1280x1024@60Hz	✓	✓	✓	✓
Quadruple Display :					
HDMI 1 + HDMI 2 + DP 1 +DP 2	1920x1080@60Hz	✓	✓	✓	✓
HDMI 1 + HDMI 2 + DP 1 +LVDS	1280x1024@60Hz	✓	✓	✓	✓
HDMI 1 + HDMI 2 + LVDS +DP 2	1280x1024@60Hz	✓	✓	✓	✓
HDMI 1 + LVDS + DP 1 +DP 2	1280x1024@60Hz	✓	✓	✓	✓
LVDS + HDMI 2 + DP 1 +DP 2	1280x1024@60Hz	✓	✓	✓	✓
Dongle Test					
amber DP to HDMI	3840x2160@60Hz	✓	✓	✓	✓
amber DP to HDMI active	3840x2160@60Hz	✓	✓	✓	✓

5. Audio Test

Model Name	Windows 10/11 Driver	Linux(Ubuntu)
Audio Codec / ID	ALC888S	
Headphones with MIC	✓	✓

6. SATA SSD/M.2 PCIe SSD Test

Model Name	1.Bus speed 2.EFI Reboot Test	CrystalDiskMark 8 Read / Write (MB/s)
2.5"SATA SSD: Apacer AS340X 240G	✓	547/482
2.5"SATA SSD: Crucial CT240BX500SSD1 240G	✓	551/505
2.5"SATA SSD: RiTEK S11 256G	✓	550/504
3.5"SATA HDD: WD WD1600AAJS 160G	✓	123/115
3.5"SATA HDD: SEAGATE ST1000DM014 1T	✓	227/218
3.5"SATA HDD: WD WD10EZEX 1T	✓	185/176
M.2 PCI-e 2280 SSD: WD Blue SN580 500G	✓	4042/3659
M.2 PCI-e 2280 SSD: WD SN770 WDS500G3X0E 500G	✓	5059/3782
M.2 PCI-e 2280 SSD: SEAGATE FireCuda ZP500GM30002 500G	✓	5004/2540
M.2 PCI-e 2280 SSD: ADATA XPG GAMMIX S70 BLADE 512G	✓	7073/3089
M.2 PCI-e 2280 SSD: Crucial T700 1T	✓	11706/10218

7. USB 2.0 Port Test

Type	Plug-unplug	Safely remove	CrystalDiskMark 8 Read / Write (MB/s)
CN_USB Port 1	✓	✓	44.58/40.79
CN_USB Port 2	✓	✓	44.66/40.78

8. USB3.2 Port Test

Type	Plug-unplug	Safely remove	USB POWER Disable	CrystalDiskMark 8 Read / Write (MB/s)
USB_RJ45_1 Port 1	✓	✓	N/A	1057/1020
USB_RJ45_1 Port 2	✓	✓	N/A	1057/1021
USB_RJ45_2 Port 1	✓	✓	N/A	1056/1021
USB_RJ45_2 Port 2	✓	✓	N/A	1057/1021
USB3 Port 1	✓	✓	N/A	1057/1020
USB3 Port 2	✓	✓	N/A	1057/1023

9. USB Keyboard & Mouse Test

Model Name	Wake-up	Press Ctrl+Alt+Del x 10 times
Mouse: ASUS-JM3	✓	✓
Keyboard: ACER-PR1101U	✓	✓

10. Serial Port Test

Standard Test	baud	COM1	COM2	COM3~COM4
Serial Mouse	9600	✓	✓	✓
RS232 transfer by SSCOM32.exe	115200	✓	✓	✓
RS422 RX-TX transfer by SSCOM32.exe	115200	✓	✓	N/A
RS485 TX-RX transfer by SSCOM32.exe	115200	✓	✓	N/A
RS232 loopback plugs by passmark Passmark Burnintest v10.2	115200	✓	✓	✓

11. Network Test

Model Name	1.Bridge connections 2.Bus Speed 3.WOL 4.Hot plug	Ping Test iPerf Test	Link / Speed LED		
			100M	1G	2.5G
Onboard LAN1: I226-LM	✓	✓	✓	✓	✓
Onboard LAN2: I226-V	✓	✓	✓	✓	✓

12. M.2 Test

Model Name	Bus Speed	WOL	Link Speed	Result
M2-210	✓	✓	✓	✓
M2-225-LM	✓	✓	✓	✓
M2-225-IT	✓	✓	✓	✓
M2-2213	✓	N/A	✓	✓
AW-CB260NF	✓	✓	✓	✓
INTEL 9260NGW	✓	✓	✓	✓

13. PCIe Slot Test

PCIEx16 slot	Pass	Note
x1 LAN card : Intel I210-T1	✓	
x4 LAN card : AS-T10G	✓	
x4 PCIe SSD : Plextor PX-256M8PeY	✓	
PCIe x16 Graphics Card : MSI GTX1050Ti	✓	
PCIe x8 Graphics Card :ASUS PH-RTX3050-8G	✓	

PCIe x16 to 8x2 Riser Card :RSR-00010-02	✓	
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Graphics Card:3D MARK(TIME SPY)+PRIME95

14.TPM Test on Windows10x64

Vendor/Model Name	Enable/Disable	Clear TPM	TPM Status by TPM.msc
fTPM: INTC 700.19.0.1854	✓	✓	✓
H/W TPM: IFXI 7.85.51968.0	✓	✓	✓

15. TPM Test on Windows11x64

Vendor/Model Name	Enable/Disable	Clear TPM	TPM Status by TPM.msc
fTPM: INTC 700.19.0.1854	✓	✓	✓
H/W TPM: IFXI 7.85.51968.0	✓	✓	✓

16. GPIO / Watchdog Test

Model Name	UEFI SHELL
GPIO	✓
Watchdog	✓

17. Power Supply Test

No.	DESCRIPTION	Result
1	MW LRS-150-12 (12V/12.5A) 150W	✓
2	MW LRS-600-12 (12V/50A) 600W	✓
3	MSI MAG A550BN 550W	✓
4	Seasonic S12III-550 550W	✓
5	Gigabyte P550B 550W	✓
6	FSP HA550 550W	✓

18. OS Install Test

No.	DESCRIPTION	Result
1	Windows 10x64_22H2	✓
2	Windows 11x64_24H2	✓
3	Windows 10_LTSC_21H2	✓
4	Windows 11_LTSC_24H2	✓
5	Ubuntu_25.04	✓
6	RHEL_10	✓
7	Fedora_42	✓

Boot up Test

Configuration					
CPU	Ultra 9 285		Memory	Kingston KVR64A52BS8-16 DDR6400 16Gx2	
BIOS	671710		Power	Seventeam ST-400P-AD 400W	
Temperature	Result	Remark	Temperature	Result	Remark
-30℃	✓		70℃/90%RH	✓	

Temperature Test

Configuration					
CPU	Ultra 9 285		Memory	Kingston KVR64A52BS8-16 DDR6400 16Gx2	
BIOS	671710		OS	UEFI-Win11x64_24H2	
Storage	NVMe ADATA XPG GAMMIX S70 BLADE 512G		Power	Seventeam ST-400P-AD 400W	
			SW	Burnintest v10.2	
Temperature	Result	Remark	Temperature	Result	Remark
-30℃	✓		-30~70℃/90%RH	✓	
70℃/90%RH	✓				

Thermal Measurements Test

Configuration			
CPU	Ultra 9 285	Memory	Kingston KVR64A52BD8-64 DDR6400 64Gx2
BIOS	671710	OS	UEFI-Win11x64_24H2
Storage	NVMe ADATA XPG GAMMIX S70 BLADE 512G	Power	MSI MAG A550BN 550W
Software	Burnintest 10.2		
Item	Environmental temperature	23℃	
1	CPU	79	
2	U1	63.4	
3	U2	69.2	
4	U3	70.9	
5	U4	69.4	
6	U5	66.2	
7	U6	38	
8	U8	46.4	
9	U9	67	
10	U12	68.9	
11	U17	59.9	
12	U22	56.3	
13	U26	41.9	
14	U32	43.1	
15	U33	57.2	
16	U47	47.9	
17	U48	46.7	
18	L1	65.5	
19	L2	68.8	
20	L3	69.5	
21	L4	65.7	
22	L5	69.5	
23	L6	72.3	
24	L8	46.3	
25	L9	41.7	
26	L11	41.3	
27	PL1	71.7	
28	PL2	58.5	
29	PL3	56.6	
30	PL4	47.8	
31	C26	53.6	
32	C41	37.2	

33	C43	43.8
34	C53	52.6
35	C268	37.9
36	Q36	48.7
37	Q37	47.2
38	Q39	42.3
39	Q43	41.8

Intel Arrow Lake CPU Compatibility/Performance Test

FCLGA 1851	Vcore (@BIOS)	T °C (@BIOS)	Clear CMOS	MEM Clock	TurboBoost	Install O.S	Test Item									3DMark+ Prime95 loop
							1.S3~S5 2.PowerON-Off 3.HW Reset			CINEBENCH_R23		PCMark 10 on windows 11x64	3DMark Recommend on Windows 11x64			
										Single Core	Multi Core					
Ultra 9 285	0.992	37	✓	6400	✓	✓	✓	✓	✓	2250	34385	7696	2447	2129	16200	✓
Ultra 7 265	0.944	31	✓	6400	✓	✓	✓	✓	✓	2158	29602	7514	2426	2110	16109	✓
Ultra 9 285T	0.960	32	✓	6400	✓	✓	✓	✓	✓	1989	26455	7328	2463	2145	15406	✓
Ultra 7 265T	0.960	32	✓	6400	✓	✓	✓	✓	✓	1942	23643	7026	2419	2106	15443	✓
Ultra 5 225	0.968	33	✓	6400	✓	✓	✓	✓	✓	1906	17452	6323	1223	1058	10881	✓

Procedure:

1. Run Suspend to S4. Shutdown to S5.
2. Press Power Button to turn on and off your system .
3. Press HW Reset Button to Reset your system .
4. Run PCMARK 10 to check system performance.
5. Run 3DMark Recommended (TIME SPY)/ Prime95.