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R2000/V2000/

R1000/V1000/V1756

Windows Catalyst Driver Release Notes

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Revision History

Date	Revision	Description
Nov 2026	4.0	Windows Catalyst & Chipset Drivers Refresh
Sep 2026	3.0	Windows Chipset Driver Refresh
August 2026	2.0	Windows Catalyst & Chipset Drivers Refresh
March 2026	1.0	Windows Catalyst & Chipset Drivers Refresh

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Chapter 1 Overview

Windows Embedded Catalyst Drivers include a set of drivers to enable Graphics and peripheral devices on selected development platforms.

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Chapter 2 New in this Release

- Catalyst & Chipset drivers refresh for Embedded R2000, V2000, R1000, V1000 and V1756 programs.
- Fixed security vulnerability issues in both graphics & I/O drivers.

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Chapter 3 Windows Driver Support

OS	Win11 x64 bit Win10 x64 bit	
Catalyst/Graphics Driver	Radeon Software Version	23.19.27.02
	AMDVER	31.0.21927.2000
	Driver Packaging Version	23.19.27.02-260922a-205745C
	WHQL	Yes
Chipset Driver	AMD_Software_8.09.07.454	

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Chapter 4 OS and Processor Family Support

Processor family	AMD Program	Win11 25H2 x64 bit	Win10 LTSC 2021/Win 10 22h2 X64 bit
R2000 Series	Picasso FP5	Yes	Yes
V2000 Series	Renoir FP6	Yes	Yes
R1000 Series	RV2 FP5	No	Yes
V1000 Series	RV1 FP5	No	Yes
V1756	Raven Ridge 1	Yes	Yes

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Chapter 5 Supported Feature List

Features Group	Features Category	V2000 Series	R2000 Series	R1000 Series	V1000 Series	V1756
3D	OGL 4.6	Yes	Yes	Yes	Yes	Yes
3D	Vulkan	Yes	Yes	Yes	Yes	Yes
Display	4K Cinema	Yes	Yes	Yes	Yes	Yes
Display	Number of displays	Refer to the following display support table.				
Display	DP MST	Yes	Yes	Yes	Yes	Yes
Multimedia	H.264 decode	Yes	Yes	Yes	Yes	Yes
Multimedia	H.265 decode	Yes	Yes	Yes	Yes	Yes
Multimedia	VP9 decode	Yes	Yes	Yes	Yes	Yes
Multimedia	10-bit decode	Yes	Yes	Yes	Yes	Yes
Audio	DP Audio	Yes	Yes	Yes	Yes	Yes
External dGPU validation	dGPU	No	No	No	No	No
Eyefinity	Auto Eyefinity (MST)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Mixed rotation	No	Yes	No	No	No
Eyefinity	Mixed Alignment	Yes	Yes	Yes	Yes	Yes
Eyefinity	Tiled display SLS(4x1,3x1,2 x1etc..)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Mixed Tiled display (2x2 ,1x3 etc…)	Yes	Yes	Yes	Yes	Yes

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Eyefinity	Tiled Groups (1x2+1 ,1x2 + 1x2 etc…)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Multi GPU (Eyefinity on single GPU)	No	No	No	No	No
Eyefinity	Bezel Compensation	Yes	Yes	Yes	Yes	Yes
EDID management	Advance Feature	Yes	Yes	Yes	Yes	Yes
Custom timing	Advance Feature	No	No	No	No	No
10-bit color	Advance Feature	Yes	No	Yes	Yes	Yes
dGMA	OpenGL	No	No	No	No	No
dGMA	OpenCL	No	No	No	No	No
OpenGL	OpenGL	Yes	Yes	Yes	Yes	Yes
OpenCL	OpenCL	Yes	Yes	Yes	Yes	Yes
Peripherals	AHCI Drivers	Yes	Yes	Yes	Yes	Yes
Peripherals	AMD PSP Drivers	Yes	Yes	Yes	Yes	Yes
Peripherals	USB 3.0 Driver (ITB)	Yes	Yes	Yes	Yes	Yes
Peripherals	eMMC driver (ITB) (HS400 mode only)	No	Yes	No	No	No
Peripherals	Ethernet driver	No	No	No	No	No
Peripherals	Audio driver	Yes	Yes	Yes	Yes	Yes
Peripherals	GPIO2	Yes	Yes	Yes	Yes	Yes

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Peripherals	I2C	Yes	Yes	Yes	Yes	Yes
Peripherals	UART	Yes	Yes	Yes	Yes	Yes
Peripherals	SMBUS	Yes	Yes	Yes	Yes	Yes
Peripherals	Watchdog	Yes	Yes	Yes	Yes	Yes
Peripherals	SPI	Yes	Yes	Yes	Yes	Yes
Peripherals	Serial (UART w/ COM interface)	Yes	Yes	Yes	Yes	Yes

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Chapter 6 Processor Display Support

APUs	Max No. of display
R2000 Series • R2544 • R2514 & R2314 • R2312	• 4x 4K60 • 4x 1080p60 / 3x 4K60 • 3x 4K60
V2000 Series • V2516 & V2546 • V2718 & V2748	• 4x 4K60 / 4x 4K30
R1000 Series	• 3x 4K60
V1000 Series	• 4x 4K60
V1756	• 4x 4K60

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Chapter 7 Platform Configuration

7.1 R2000 Platform (Bilby)

R2000 Platform (Bilby)	
Processor family	R2000 Series
Model (CPU config, CPU Base Frequency, GPU config, nominal TDP)	**R2312** (2C/4T, 2.7 GHz CPU, 3 Vega CUs, 15W) **R2314** (4C/4T, 2.1 GHz CPU,6 Vega CUs, 15W) **R2514** (4C/8T,2.1 GHz CPU, 8 Vega CUs, 15W) **R2544** (4C/8T,3.35 GHz CPU, 8 Vega CUs, 45W)
BIOS version	RBP1009A
VRAM setting	**R2312 & R2314**: 4GB **R2514 & R2544**: 8GB
RAM (DDR4)	**R2312**: 2x8GB 2400 MT/s Non-ECC **R2314**: 2x8GB 2667 MT/s Non-ECC **R2514**: 2x16GB 2667 MT/s ECC **R2544**: 2x16GB 3200 MT/s ECC
Display Convertors / Dongles Used	DP Direct Cable, HDMI Direct Cable, DP-HDMI converter
Storage disk	M.2 SATA SSD

7.2 V2000 Platform (Celadon)

V2000 Platform (Celadon)	
Processor family	V2000 Series
Model (CPU config, CPU Base Frequency, GPU config, nominal TDP)	**V2516** (6C/12T 2.1GHz CPU, 6CUs GPU, 15W) **V2546** (6C/12T 3.0GHz CPU, 6CUs GPU, 45W) **V2718** (8C/16T 1.7GHz CPU, 7CUs GPU, 15W) **V2748** (8C/16T 2.9GHz CPU, 7CUs GPU, 45W)
BIOS version	RCO100EA
VRAM setting	8GB
RAM (DDR4)	2x8GB SODIMM 2667 MT/s (Celadon socketed) 2x16GB SODIMM 3200 MT/s (Celadon DM Non-Nova)
Display Convertors / Dongles Used	DP Direct Cable, HDMI Direct Cable, DP-HDMI converter, Type C- DP, Type C -HDMI, Type C Direct Cable
Storage disk	M.2 NVME

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7.3 R1000 Platform (Bilby)

R1000 Platform (Bilby)	
Processor family	R1000 Series
OPN Details, Base Frequency	**R1505G** (B2 15W), 2.4 GHz **R1606G** (B4 15W), 2.6 GHz **R1305G** (LP B4 8W) 1.5 GHz **R1102G** (LP B2 6W) 1.2 GHz
BIOS version	RBB1215A
VRAM setting	4 GB
RAM (DDR4)	2x 8GB (LP B2 6W supports single 8GB DIMM)
Display Convertors / Dongles Used	DP to HDMI
Storage disk	M.2 SATA SSD

7.4 V1000 Platform (Bilby)

V1000 Platform (Bilby)	
Processor family	V1000 Series
OPN Details, Base Frequency	**V1807B** (4C 45W 3.35GHz CPU, 11 GPU CUs) **V1756B** (4C 45W 3.25GHz CPU, 8 GPU CUs) **V1605B** (4C 15W 2GHz, 8 GPU CUs) **V1202B** (2C 15W 2.3GHz, 3 GPU CUs) V1500B (16W NPU), 2.2 GHz V1780B (45W NPU), 3.35 GHz
BIOS version	RBB1215A
VRAM setting	4 GB
RAM (DDR4)	2x 8 GB
Display Convertors / Dongles Used	DP to HDMI
Storage disk	M.2 SATA SSD

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7.5 V1756 Platform (Raven Ridge)

V1756 Platform	
Processor family	V1500 Series
Model (CPU config, CPU Base Frequency, GPU config, nominal TDP)	V1756 (4C/8T, 3.25 GHz CPU, 8 Vega CUs, 35-54W)
BIOS version	RBB1212A
RAM	DDR4-3200
Display Convertors / Dongles Used	DP Direct Cable, HDMI Direct Cable, DP-HDMI converter
Storage disk	M.2 NVMe, SATA SSD

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Chapter 8 SW Package

SW Component	WHQL certified drivers	Catalyst Installer Package	Chipset Installer Package	Comments
Display	Yes	Yes	No	Includes Graphics Drivers
PSP	Yes	No	Yes	
SBDrv:acpi	Yes	No	Yes	
SBDrv:SFH	Yes	No	Yes	Not supported on V1000, R1000, V2000, R2000
SBDrv:SFHI2C	Yes	No	Yes	
SBDrv:I2C	Yes	No	Yes	
SBDrv:SMBus	Yes	No	Yes	Null driver (AMD SMBUS Driver)
SBDrv:UART	Yes	No	Yes	Max 4M baud-rates
Audio:ACPBus	Yes	Yes	No	
Audio:HDMI	Yes	Yes	No	
Audio:HDABus	Yes	No	No	I2S & I2STDM not applicable on V2000. I2STDM not applicable to R2000.
Audio:I2S	Yes	Yes	No	
Audio:I2STDM	Yes	Yes	No	
XGBE	Yes	No	Yes	Not applicable for V2000 and R2000.
Ryzen Power Plan	Yes	No	Yes	For V2000, "**AMD Processor Power Management Support**" gets installed as provisional package.
IOV	Yes	No	Yes	Null driver
SMBUS	Yes	No	Yes	**Functional driver (**AMD Emb SMBUS Driver) Block R/W Ops has data mismatch error on first byte.
CIR	Yes	No	Yes	**Null driver** (Feature not supported on V1000, R1000, R2000, V2000)
USB 3.1	Yes	No	Yes	
GPIO2	Yes	No	Yes	
Serial	Yes	No	Yes	**Drivers: UART with COM interface. Max Baud rate: 115200, 3M, 4M bauds**
Watchdog	Yes	No	Yes	

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Chapter 9 SW Package - Graphics Driver Version

The graphics driver package is also termed as ‘ESE 25Q4 Driver’ or ‘Radeon Software’.

This package contains various independent drivers. Below are the version numbers of Radeon software and other drivers included. The same should also be visible with Radeon Software->System->Software & Driver Details.

S. No	SW Driver Description	Version
1	Radeon Software Version	23.19.27.02
2	Radeon Software Edition	Adrenalin
3	AMDVER	31.0.21927.2000
4	Driver Packaging Version	23.19.27.02-260922a-205745C
5	2D Driver Version	8.1.1.1634
6	Direct3D®	12.1
7	OpenGL®	4.6
8	AMD Audio Driver	10.0.1.30
9	Vulkan™ Driver	2.0.279
10	Vulkan™ API	1.3.260

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Chapter 10 Issues Fixed

1. Security Vulnerability issues are fixed in both Catalyst & Chipset driver.

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Chapter 11 Known Issues/Limitations

11.1 R2000 Platform (Bilby)

1. After chipset installation, when "View Installation Summary Log" is fetched, "Failed to Fetch Version" is observed for some devices.
2. AC3 audio playback is not supported with Win11 24H2 OS.
3. “Try Complex Eyefinity Control panel” fails to launch.
4. CPU & GPU Utilization mismatch observed between AMD Radeon Performance UI and Task manager.
5. EDID UI display numbers are not matching with OS display settings page display numbers.
6. EDID Tab is appearing after few seconds in AMD Radeon Settings Page.
7. Display corruption observed while creating Eyefinity.
8. Few test cases failed (45/79) with OCL Conformance test suite.
9. On R2544 OPN, display corruption and system hang observed during video playback with M& Tv application.
10. On Win11, Core-Isolation/Memory-Integrity feature/HVCI is not enabled by default.

    Workaround:

    a. In BIOS, Enable IOMMU & SVM
       - AMD PBS ->NB Configuration->IOMMU->Enable.
       - Advanced->SVM support->Enabled.

    b. In OS, Enable Memory-Integrity in Windows-security or with regkey.
       - Core Isolation->Memory Integrity->On
       - **With reg key:** HKLM\SYSTEM\CurrentControlSet\Control\DeviceGuard\Scenarios\HypervisorEnforcedCodeIntegrity -> Enabled=1
11. Stutters observed during video playback with EDID emulated.
12. UMA Buffer size (VRAM) is not reflecting correctly at the OS level after we tried to modify TDPs in the BIOS.
13. TDR Observed during Unigine Heaven OGL overnight stress
14. Stutters observed while playing 4K to 1080p transcoding video samples.
15. Sporadically MPEG, H.264 playback stutter observed after switching from windowed mode to full screen and vice-versa.
16. Observed overlapping issue on maximizing tiny renderers Vulkan samples. Issue not seen with DirectX samples.
17. Stutter observed when video played with MSFT Edge Browser.

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18. Audio & Video Lag observed in Teams/Zoom call with PPT slide show and Edge browser launched individually in 3x4K setup.
19. Stutter observed on Movies &TV full screen video playback while moving mouse pointer to bring up the seek bar.
20. EDID UI closes automatically while emulating from secondary display. Primary display can be used.
21. Orientation tab is grayed out in Display settings with Eyefinity enabled.
22. Sporadically (4/10 times) Green color display observed while performing reboot function with HDMI display (Pixel Format: YCbCr 4:2:0), with LG27UK650 panel.
23. Sporadically (2/5 times) green display observed with 2x1/1X2 Eyefinity arrangement during restart cycles with HDMI.
24. Depth Bounds Test Dx11 application crashes while launching.
25. SD Card hot plug is not detected.
26. Secondary monitors light up even with MST option turned OFF in monitors (Daisy chain mode).
27. Stutters & Video Lags observed for all Media formats.
28. Stutters observed for playback through edge browser with multiple monitors connected.
29. Glitches observed in Audio on Zoom calls with multi-monitors connected.
30. Sporadically observing “can't play error 0x800706ba” on Movies and TV App with VP9 video after resuming from sleep.
31. Sporadically resolution mismatch observed after creating Eyefinity using “Quick Setup”.
32. Video hang and TDR observed when forward and rewind the H265 video.
33. Position Windows Taskbar functionality does not work in Radeon Additional settings.
34. Display light up fails on 2nd and 3rd DP display with LG monitor after reboot.
35. 2x2 Eyefinity is not working with FIT and Expand layout.
36. USBC display light up issues observed onboard USBC display port 0.
37. Stutters observed during HEVC Video playback with USBC display connected to onboard USBC port.
38. Platform is getting powered "ON" using (USBC) Type-C to Type-C display without using a power adapter.
39. With USBC display connected to onboard USBC port, errors are observed in log files during long run S3 cycles like ‘system rebooted unexpectedly, ACPI errors and device instance errors’.
40. CPU Utilization mismatch observed between AMD Radeon Performance UI and Task manager.
41. Sporadically TDR observed while resuming from S3 with EDID emulated displays.

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42. 3x1 Eyefinity creation fails after enabling and disabling 2X1 Eyefinity.
43. EDID UI display numbers are not matching with OS display settings page display numbers.
44. GFX option under Die 0 is missing from Thermal Checker in AMD AVT.
45. Observed AMDRadeonSettings Installation UI Crash during driver only Installation.
46. I2STDM driver supports both I2S & I2STDM functionality.
47. For I2S functionality, use the workaround below.
48. **Workaround:** Uninstall ACPBus & I2STDM drivers obtained by default from Catalyst driver. Install explicitly provided ACPBus and I2STDM drivers after reboot.
49. R2544/R2514 Only
50. System hang observed after resuming from S3 on few systems 3 out of 5 times.
51. SV12 PowerInfo Not Showing Power and Current Data in AVT Tool.
52. Observed error while launching Performance State in the AVT tool
53. Observing "Driver cannot load on this device" error during 3DMark 11 benchmark run
54. Graphics Driver Yellow bang observed while running SST overnight
55. Chipset uninstallation is not working as expected
56. AMD Software and AMD Software Pro showing in OS start menu

11.2 V2000 Platform (Celadon)

57. After chipset installation, when "View Installation Summary Log" is fetched, "Failed to Fetch Version" is observed for some devices.
58. AC3 audio playback is not supported with Win11 24H2 OS.
59. “Try Complex Eyefinity Control panel” fails to launch.
60. SPI RDID Command result shows all 0s.
61. Failed Creating the Direct3D device error observed while launching Barycentrics11 and CrossfireAPI11.
62. Stutters observed while playing 30fps video playback.
63. Chipset Installation is successful but log file shows as " FAIL" for AMD Processor Power Management Support.
64. Sporadically (1/5) Multiple display blanks out observed post Eyefinity arrangement [Nx1 or 1XN].
65. Few test cases failed (45/79) with OCL Conformance test suite.
66. Performance drops in Pass mark 10(2D Graphics Mark) and Pass mark rating on Win11 OS compared to Win10. Disabling VBS & HVC improves performance.
67. Time Based Profiling and Power Profiling in AMDuProf tool is not supported in Win11 22H2 OS.

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68. Modern Standby is not supported on RS5 with SATA SSD.
69. Workaround: Use NVMe M.2 disk.
70. BIOS settings to enable S3 (default settings):
a. AMD PBS ->S3/Modern Standby S3 enable.
b. Boot UEFI OS Fast Boot Option --> Disable.
71. BIOS settings required for Modern Standby:
a. AMD PBS -> S3/Modern Standby Support = <Modern Standby Enable>.
b. AMD PBS -> Modern Standby Type = <Modern Standby + S0i3>.
c. AMD PBS -> Reduced Hardware Support = <Enabled>.
72. BIOS Settings to avoid yellow bang with I2C and UART enabled in BIOS:
a. Setup Utility->AMD PBS->NFC Support->Disabled.
b. Setup Utility->AMD PBS->ALS Support->Disabled.
c. Setup Utility->AMD PBS->Touch Panel Support->Disabled.
d. Setup Utility->AMD PBS->Touch Pad Support->Disabled.
73. S3 is enabled by default in BIOS. If switched to MSB, re-install graphics and chipset drivers.
74. Display or media player blank out observed only once for few seconds, on playing video after shutdown & boot. If media player is not recovering, re-open the media player.
75. Setup failed Error during hot unplug after quick Eyefinity.
76. Tearing with Eyefinity: All displays will be tear free only if all displays are using the same timing and same connector type.
77. Display blank out is observed for Eyefinity in portrait mode.
78. Sporadically Display blank out, system hang, BSOD is observed during video playback with Eyefinity arrangement.
79. Eyefinity is not functional with mix of DP and HDMI monitors.
80. Using Quick Setup Vertical position Eyefinity configuration fails for 1st time.
81. Sporadically observing system hung during reboot with 2x1 or 1x2 Eyefinity configuration.
82. BSOD observed while doing AMDeSPI tool command execution.
83. EDID UI display numbers are not matching with OS display settings page display numbers.
84. Eyefinity creation failing after trying N-1X1 or 1XN-1 Eyefinity with N displays connected.
85. Vulkan GLTF samples are crashed followed by hang while doing resize to minimum.
86. Observed AMDRadeonSettings Installation UI Crash during driver only Installation.
87. Sporadically (1/5) system not entering MSB because of active High-definition audio controller.

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88. PM option is not appearing in the AGM tool.
89. Sporadic[1/5] Multi-Monitor Display fails After Reboot with Three Displays Connected.
90. AVT application unexpectedly closes upon enabling "C0 State" in "Core Info" under PMM.
91. Graphic Driver yellow bang observed for overnight SST run with max displays
92. Version number cannot be determined observed for AMD Processor Power Management Support after installing the chipset drivers
93. Observed AMD Software: Adrenalin Edition Warning after doing inf uninstallation from device manager
94. Observing "Driver cannot load on this device" error during 3DMark 11 benchmark run

11.3 R1000 & V1000 Platform (Bilby)

95. SD Card as bootable device does not support High Speed (HS) and at UHS I – DDR50.
96. MPEG/H.264 playback stutter observed after switching from windowed mode to full screen and vice versa.
97. ROM Armor is unsupported feature for SPI ROM driver. No plan to enable ROM Armor in the future.
98. Radeon Pro Settings UI not opening after EDID emulation and Reboot.
99. **Workaround:** Close Radeon Pro UI before reboot
100. I2STDM drivers support both I2S & I2STDM functionality but are not validated. For I2S & I2STDM functionality, use the workaround below.
101. **Workaround:** Uninstall ACPBus & I2STDM driver obtained by default from Catalyst driver. Install ACPBus and I2STDM provided explicitly after reboot.
102. Frequently (7/10 times) video playback corruption observed while performing windowed to full screen mode with Eyefinity enabled".
103. Frame Rate displays as N/A in metrics under performance of AMD Radeon software.
104. VC1 Video getting Paused during Hot plug.
105. Multiple tests failure observed while running.
106. CL_Conformance 2.0
107. Sporadically Uninstall fails after catalyst driver installed in Minimal method.
108. R1000-LP R1305G / R1102G Only
109. S3 resume fails after around 250 cycles.
110. Intermittent BSOD observed during overnight "Reboot Stress" with bugcheck "MEMORY_MANAGEMENT(1a)"
111. Observing "Driver cannot load on this device" error during 3DMark 11 benchmark run

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112. AVT application unexpectedly closes upon enabling "C0 State" in "Core Info" under PMM
113. Voltage(V) and Frequency(MHz) Values Not Displayed under Power/Thermal Monitor in AVT Tool
114. Observed AMD Software: Adrenalin Edition Warning after doing inf uninstallation from device manager
115. TDR Observed with OS Reboot While Running Overnight Stress with 4×4K Displays Connected
116. Screen Flickering Observed During Video Playback with 3x4K Monitors Connected

11.4 Eyefinity(R1000, V1000, R2000, V1756)

117. Very Sporadically TDR observed during Eyefinity creation.
118. TDR and system hang observed during S3 long run.
119. Setup failed Error during hot unplug after quick Eyefinity.
120. **Tearing with Eyefinity:** All displays will be tear free only if all displays are using the same timing and same connector type.
121. Display blank out is observed for Eyefinity in portrait mode.
122. Sporadically Display blank out, system hang, BSOD is observed during video playback with Eyefinity arrangement.
123. Eyefinity is not functional with mix of DP and HDMI monitors.
124. Using Quick Setup Vertical position Eyefinity configuration fails for 1st time.
125. Sporadically observing system hung during reboot with 2x1 or 1x2 Eyefinity configuration.
126. Observed a sporadic TDR during S3 with EDID emulation enabled on dual displays in the HDMI + Eyefinity + Playback test scenario.

11.5 Common issues (R1000, V1000, R2000)

1. Unilog & PM option is not appearing in the AGM tool.
2. Debugger option is not listed under SAU in AVT Tool.

127. Voltage(V) and Frequency(MHz) Values Not Displayed under Power/Thermal Monitor in AVT Tool.
128. AVT application unexpectedly closes upon enabling "C0 State" in "Core Info" under PMM.

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11.6 Chipset Driver silent installation

Chipset driver fails during silent installation after manually uninstalling drivers through device-manager.

Workaround: To install drivers that are removed using device manager, run this command:

Example driver : SMBUS and PSP
START /WAIT "" "C:\Users\amd\Desktop\AMD_Chipset_Software.exe" /S
/CUSTOMINSTALL="PSP,SMBUS"

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Chapter 12 Notes on Validation

- R2000 and V2000 are validated with Win11 25H2 OS version and Win10 LTSC OS.
- R1000 and V1000 are validated with Win10 LTSC and Win 10 22H2 OS version.
- V1756 is not validated.

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Chapter 13 Support

Please contact your Field Application Engineer for support on this release.