



AMD Windows Catalyst Driver
Release Notes

Table of Contents

- 1. Overview 3
- 2. New in this Release 3
- 3. Windows Driver Support..... 3
- 4. SW Driver & SoC support 4
- 5. Supported feature list 5
- 6. SoC Display support 7
- 7. Multi GPU (APU+ dGPU) pairing support..... 8
 - a. Below table states the dGPUs and platforms pairing support..... 8
 - b. Side-by-Side Installation..... 8
- 8. Platform configurations 9
 - a. R2000 Platform (Bilby) 9
 - b. V2000 Platform (Celadon)..... 9
 - c. R1000 Platform (Bilby) 9
 - d. V1000 Platform (Bilby) 10
 - e. Pademelon 10
 - f. OH+ 11
 - g. Lamar 11
 - h. dGPU 12
- 9. SW Package 14
- 10. SW Package - Graphics Driver Version..... 15
- 11. Issues Fixed from previous SW package release..... 16
 - a. R2000 Platform 16

- b. V2000 Platform 16
- 12. Known Issues/Limitations 16
 - a. R2000 (Bilby) Platform 16
 - b. V2000 Platform (Celadon)..... 17
 - c. R1000 & V1000 Platform (Bilby) 18
 - d. Eyefinity (R1000, V1000, V2000) 18
 - e. XGBE (R1000 / V1000 Series Bilby) 19
 - f. Prairie Falcon 20
 - g. Multi-GPU (mGPU)..... 20
 - h. Side-by-Side usecase 20
- 13. Notes on Validation 21
- 14. Notes on older legacy dGPU 21
- 15. Support..... 21

1. Overview

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

2. New in this Release

- Catalyst (Graphics):
 - o Driver refresh on R2000 & V2000 and with Win11 & Win10 21H2.
 - o V2000 is not validated with Win10 RS5.
 - o V1000, R1000 and dGPUs are not validated.

3. Windows Driver Support

Non-Legacy Graphics Driver Support Win 10 & Win11, 64 bit	21.50
Windows Chipset Driver	AMD_Software_4.03.17.354
OS Support	Windows 11 x64 Windows 10 21H2 x64 Windows 10 RS5 x64
SoC Family (Platform)	R2000 Platform (Bilby) V2000 Platform (Celadon) R1000 Platform (Bilby) V1000 Platform (Bilby) dGPU: Polaris+ (E9260, E9550, E9171x Series, E9390, E9560, E9565)

4. SW Driver & SoC support

SoC	AMD Program	Windows 10 RS5	Windows 10 21H2	Windows 11	Catalyst Driver
		64 bit	64 bit	64 bit	Non-Legacy
R2000 Series	Picasso FP5		X	X	X
V2000 Series	Renoir FP6	X	X	X	X
R1000 Series	RV2 FP5	X	X		X
V1000 Series	RV1 FP5	X	X		X

dGPU	Program	Windows 10 RS5	Windows 10 21H2	Windows 11	Catalyst Driver
		64 bit	64 bit	64 bit	Non-Legacy
E9260	Coruja	X	X		X
E9550	Hontza	X	X		X
E9171x Series	Boum	X	X		X
E9390	Ellesmere	X	X		X
E9560	Ellesmere	X	X		X
E9565	Ellesmere	X	X		X

Legend:

- X- supported
- Blank- Not supported

5. Supported feature list

Features Group	Features category	V2000 Series	R2000 Series	R1000 Series	V1000 Series	dGPU
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 display support table below	Refer display support table below	Refer display support table below	Refer display support table below	Refer display support table below
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	No
Multimedia	VP9 decode	Yes	Yes	Yes	Yes	No
Multimedia	10-bit decode	Yes	Yes	Yes	Yes	No
Audio	DP Audio	Yes	Yes	Yes	Yes	Yes
External discrete graphics card (dGPU) validation	Refer table for dGPU pairing	No	No	R1305G & R1102G: No, R1505G & R1606G: Yes	Yes	Yes
Eyefinity	Auto Eyefinity (MST)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Mixed rotation	No	Yes	n/a	n/a	Yes
Eyefinity	Mixed Alignment	Yes	Yes	Yes	Yes	Yes
Eyefinity	Tiled display SLS(4x1,3x1,2x1etc. .)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Mixed Tiled display (2x2 ,1x3 etc...)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Tiled Groups (1x2+1 ,1x2 + 1x2 etc...)	Yes	Yes	Yes	Yes	Yes
Eyefinity	Multi GPU (Eyefinity on single GPU)	No	No	R1305G & R1102G: No, R1505G & R1606G: Yes	Yes	Yes

Eyefinity	Bezel Compensation	Yes	Yes	Yes	Yes	Yes
EDID management	Advance Feature	Yes	Yes	Yes	Yes	Yes
Custom timing	Advance Feature	No	No	Yes	Yes	Yes
10-bit color	Advance Feature	Yes	No	Yes	Yes	Yes
dGMA	OpenGL	No	No	R1305G& R1102G: No, R1505G &R1606G: Yes	Yes	Yes
dGMA	OpenCL	No	No	R1305G& R1102G: No, R1505G &R1606G: 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	Yes	Yes	No
Peripherals	Ethernet driver	No	No	Yes	Yes	Yes
Peripherals	Audio driver	Yes	Yes	Yes	Yes	Yes
Peripherals	GPIO2	Yes	Yes	Yes	Yes	Yes
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	GPIO	Yes	Yes	Yes	Yes	Yes
Peripherals	Serial (UART w/ COM interface)	Yes	Yes	Yes	Yes	No

6. SoC Display support

APUs	Max No of display
R2000	3x4K60
V2000 Series	4x4K60
R1305G / R1102G	3x 1080p / 2x 1080p
R1000 Series	3
V1000 Series	4
MF, BF	3
PF	2
BE	3
SE, LX	2
eKB	2
E9260	5
E9550	6
E9171	5
E9172	5
E9173	3
E9174	5
E9175	5
E9390	4
E9560	4
E9565	6

7. Multi GPU (APU+ dGPU) pairing support

a. Below table states the dGPUs and platforms pairing support

APU (iGPU)	dGPU
R1505G, R1606G	E9260, E9550, E9171, E9172, E9173, E9174, E9175, E9390, E9560,
V1000 Series	E9565,
MF, BF, PF	E8860, E8870, E8950

Note: Section 4 lists the details of Legacy/Non-Legacy platforms/dGPUs.

b. Side-by-Side Installation

This feature enables users to continue using legacy dGPUs on non-legacy platforms and vice-versa. In this combination, user need to install both the legacy & non-legacy catalyst drivers.

If the platform & dGPU are of same type, i.e: either both are legacy or both are non-legacy, then one catalyst driver installation (either legacy driver or non-legacy driver respectively) is enough.

APU	dGPU	Legacy Driver 21.09.04.02	Non-Legacy Driver 21.40
Pre-Raven	Pre-Polaris	X	
Pre-Raven	Polaris+	X	X

8. Platform configurations

a. R2000 Platform (Bilby)

R2000 Platform	
SoC	R2000 Series
OPN Details, Base Frequency	R2314 (4C/4T, 2.1 GHz CPU, 6 Vega CUs, 15W) R2312 (2C/4T, 2.7 GHz CPU, 3 Vega CUs, 15W)
BIOS version	RBP1000B
VRAM setting	4GB
RAM (DDR4)	R2314: 2x8GB 2667 MT/s NonECC R2312: 2x8GB 2400 MT/s NonECC
Display Convertors / Dongles Used	DP Direct Cable, HDMI Direct Cable, DP-HDMI converter Displays used: LG 27UK650, BenQ PD2700U, Dell P2219H, Dell P2217H
Storage disk	M.2 SATA SSD, eMMC

b. V2000 Platform (Celadon)

V2000 Platform (Celadon)	
SoC	V2000 Series
OPN Details, Base Frequency	V2516 (6C/12T 2.1GHz CPU, 6CUs GPU, 15W) V2718 (8C/16T 1.7GHz CPU, 7CUs GPU, 15W) V2546 (6C/12T 3.0GHz CPU, 6CUs GPU, 45W) V2748 (8C/16T 2.9GHz CPU, 7CUs GPU, 45W)
BIOS version	RCO1006A
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

c. R1000 Platform (Bilby)

R1000 Platform (Bilby)	
SoC	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	RBB1208A
VRAM setting	4 GB

RAM (DDR4)	2x 8GB (LP B2 6W supports single 8GB DIMM)
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	M.2 SATA SSD

d. V1000 Platform (Bilby)

V1000 Platform (Bilby)	
SoC	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	RBB1208A
VRAM setting	4 GB
RAM (DDR4)	2x 8 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	M.2 SATA SSD

e. Pademelon

Merlin Falcon Based DB-FP4 Pademelon Platform	
SoC	Merlin Falcon Series
OPN Details, Base Frequency	RE421BAAY43KA, 2100 MHz RE418GAAY43KA, 1800 MHz RE216GAAY23KA, 1600 MHz
BIOS version	RPD130CB – Pademelon BIOS
VRAM setting	2 GB
RAM	8 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	Magnetic Disk

Brown Falcon Based DB-FP4 Pademelon Platform	
SoC	Brown Falcon Series
OPN Details, Base Frequency	GE217GAAY23KA, 1700 MHz
BIOS version	RPD130CB– Pademelon BIOS
VRAM setting	2 GB
RAM	8 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	Magnetic Disk

Prairie Falcon Based DB-FP4 Pademelon Platform	
SoC	Prairie Falcon Series
OPN Details, Base Frequency	GE224IAVY23AC, 2400 MHz GE215JAWY23AC, 2000 MHz GE220IAVY23AC, 2200 MHz GE212JAWY23AC, 1200 MHz
BIOS version	RPD130CB– Pademelon BIOS
VRAM setting	1 GB
RAM	4 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	Magnetic Disk

f. OH+

Steppe Eagle Based DB-FP4 Eagle Platform	
SoC	Steppe Eagle Series
OPN Details, Base Frequency	GE424HIYJ44JB, 2400 MHz GE412HIYJ44JB, 1200 MHz GE222GITJ23JB, 2200 MHz GE212JIYJ23JB, 1200 MHz
BIOS version	ROP100J
VRAM setting	2 GB
RAM	8 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	Magnetic Disk

g. Lamar

Bald Eagle Based DB-FP4 Eagle Platform	
SoC	Bald Eagle Series
OPN Details, Base Frequency	RE427BDGH44JA, 2700 MHz RE425BDGH44JA, 2500 MHz
BIOS version	TALAM142
VRAM setting	2 GB
RAM	8 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	Magnetic Disk

h. dGPU

E9260 dGPU	
VBIOS version	015.050.000.001.000000 E9260 - D1170100_103 015.050.000.000.007442 E9260 - D0151100_102 015.050.000.001.000000 E9260 – D0151200_106
VRAM setting	1 GB
RAM	4 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	HDD

E9390 MXM dGPU	
VBIOS version	015.050.000.001.010957 E9390 – C954e101_101
VRAM setting	2GB
RAM	8GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	HDD

E9550 MXM dGPU	
VBIOS version	015.050.000.001.008379 E9550 - E9580100_102
VRAM setting	2 GB
RAM	8 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	HDD

E9560 MXM dGPU	
VBIOS version	015.050.000.001.010957 E9560 – C954e101_101

VRAM setting	2GB
RAM	8GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	HDD

E9565 dGPU	
VBIOS version	015.050.000.001 E9565 102-D50101-00
VRAM setting	2GB
RAM	8GB
Display Convertors / Dongles Used	mDP
Storage disk	M.2, HDD

E917X dGPU	
VBIOS version	015.050.002.001.009207 E9171 - D1240300.004 015.050.002.001.009143 E9172 - D1171200.103 015.050.002.001.009506 E9173 - D0912400.103 0.15.050.002.001.009559 E9173 - D0912200-103 015.050.002.001.000000 E9173 - D3620100-103 015.050.002.001.009142 E9174 - D1171100.101 0.15.050.002.001.009509 E9175 - D1380100.103
VRAM setting	1 - 2GB
RAM	2 - 4 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	HDD

9. 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)
CIR	Yes	No	Yes	Null driver (Feature not supported on V1000, R1000, R2000, V2000)
USB 3.1	Yes	No	Yes	
GPIO	Yes	No	Yes	
Serial	Yes	No	Yes	Drivers: UART with COM interface. Max Baud rate: 115200, 3M, 4M bauds
Watchdog	Yes	No	Yes	

10. SW Package - Graphics Driver Version

The graphics driver package is also termed as 'ESE Q4 Driver' or 'Radeon Software'.

Below are its release number and AMDVER details.

Release Number	AMDVER
21.50.18	30.0.15018.2

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	2022.0315.1818.32956
2	Radeon Software Edition	Adrenalin
3	Driver Packaging Version	21.50.18 -220315a-378119C
4	2D Driver Version	8.1.1.1634
5	Direct3D®	9.14.10.01520
6	OpenGL®	29.20.11000.14800
7	AMD Audio Driver	10.0.1.23
8	Vulkan™ Driver	2.0.220
9	Vulkan™ API	1.3.206

11. Issues Fixed from previous SW package release

a. R2000 Platform

1. Eyefinity Layout configuration mismatch observed after enabling 1x3 using quick setup method for first time
2. Sporadically adjust bezel function is not applying with HDMI

b. V2000 Platform

3. DirectX D3D11 FluidCS11 sample error observed while launching
4. Radeon pro settings UI get closed after the first S3 iteration
5. Observing one of the display resolution downgrading to 1280x720 resolution with 3 display connecting 1st time after flashing fresh OS
6. Display blank out observed after waking system from MSB/S3 state with EDID Emulation, with TypeC-to-DP.
7. Frequently video playback corruption observed while performing windowed to Fullscreen mode with Eyefinity enabled.
8. One of the TypeC-HDMI Display takes more time (5~10 secs) for light up with Multi displays connected
9. Few Vulkan CTS tests are failing with latest Vulkan API-1.3.203

12. Known Issues/Limitations

a. R2000 (Bilby) Platform

1. Stutters observed while playing 4K to 1080p transcoded video samples
2. Sporadically MPEG, H.264 playback stutter observed after switching from windowed mode to full screen and vice-versa.
3. Observed overlapping issue on maximizing Tiny renderers Vulkan samples. Issue not seen with DirectX samples.
4. Stutter observed when video played with MSFT Edge Browser.
5. Non-Eyefinity monitor is not detected when hot plugged to Eyefinity port.
6. Audio & Video Lag observed in Teams/Zoom call with PPT slide show and Edge browser launched individually in 3x4K setup.
7. Stutter observed on Movies &TV full screen video playback while moving mouse pointer to bring up the seek bar.
8. EDID UI closes automatically while emulating from secondary display. Primary display can be used.
9. Orientation tab is grayed out in Display settings with Eyefinity enabled
10. Sporadically (4/10 times) Green color display observed while performing reboot function with HDMI display (Pixel Format: YCbCr 4:2:0), with LG27UK650 panel.
11. Sporadically (2/5 times) green display observed with 2x1/1X2 Eyefinity arrangement during restart cycles with HDMI.
12. Depth Bounds Test Dx11 application crashes while launching.

13. SD Card hot plug is not detected.
14. Secondary monitors light up even with MST option turned OFF in monitors (Daisy chain mode).
15. Stutters & Video Lags observed for all Media formats
16. Stutters observed for playback through edge browser with multi-monitor connected
17. Glitches observed in Audio on Zoom calls with multi-monitors connected.
18. Sporadically observing “can't play error 0x800706ba” on Movies and TV App with VP9 video after resuming from sleep.
19. I2STDM driver supports both I2S & I2STDM functionality.
For I2S functionality, use below workaround.
Workaround: Uninstall ACPBus & I2STDM drivers obtained by default from Catalyst driver. Install explicitly provided ACPBus and I2STDM drivers after reboot.

b. V2000 Platform (Celadon)

20. Performance drops in Passmark 10(2D Graphics Mark) and Passmark rating on Win11 OS compared to Win10.
21. AGM GPU Info capture with video playback causes BSOD or hang issue. There is no problem if other AGM logs are captured during the playback
Workaround: "AMG tool --> PM --> Activity Monitor -> VCN "
22. Display flicker observed with TypeC-to-HDMI converter cable
Workaround:
Use TypeC-to-DP cable. OR
Use Type-C to HDMI cable, Make: Cable Creation, Model CD0472, Resolution: 4K@60HZ.
23. Modern Standby is not supported on RS5 with SATA SSD.
Workaround: Use NVMe M.2 disk
24. BIOS settings to enable S3 (default settings):
 - I. AMD PBS ->S3/Modern Standby S3 enable
 - II. Boot UEFI OS Fast Boot Option --> Disable
25. BIOS settings required for Modern Standby:
 - I. AMD PBS -> S3/Modern Standby Support = <Modern Standby Enable>
 - II. AMD PBS -> Modern Standby Type = <Modern Standby + S0i3>
 - III. AMD PBS -> Reduced Hardware Support = <Enabled>
26. BIOS Settings to avoid yellow bang with I2C and UART enabled in BIOS:
 - I. Setup Utility->AMD PBS->NFC Support->Disabled
 - II. Setup Utility->AMD PBS->ALS Support->Disabled

- III. Setup Utility->AMD PBS->Touch Panel Support->Disabled
- IV. Setup Utility->AMD PBS->Touch Pad Support->Disabled

27. Unused monitors become abnormal after 4x1 or 3x1 Eyefinity layout then setup to 3x1 or 2x1 layout.

Workaround: Once issue occurs, disable Eyefinity and make all monitors return to extend mode, then configure fewer monitors(4X1->3X1).

- 28. S3 is enabled by default in BIOS. If switched to MSB, re-install graphics and chipset drivers.
- 29. 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.

c. R1000 & V1000 Platform (Bilby)

- 30. SD Card as bootable device does not support High Speed (HS) and at UHS I – DDR50
- 31. MPEG/H.264 playback stutter observed after switching from windowed mode to full screen and vice versa
- 32. ROM Armor is unsupported feature for SPI ROM driver. No plan to enable ROM Armor in the future.
- 33. Radeon Pro Settings UI not opening after EDID emulation and Reboot.
Workaround: Close Radeon Pro UI before reboot
- 34. I2STDM driver supports both I2S & I2STDM functionality but are not validated. For I2S & I2STDM functionality, use below workaround.
Workaround: Uninstall ACPBus & I2STDM driver obtained by default from Catalyst driver. Install ACPBus and I2STDM provided explicitly after reboot.
- 35. Frequently (7/10 times) video playback corruption observed while performing windowed to full screen mode with Eyefinity enabled"
- 36. Frame Rate displays as N/A in metrics under performance of AMD Radeon software
- 37. VC1 Video getting Paused during Hot plug
- 38. Multiple tests failure observed while running OCL_Conformance 2.0
- 39. Sporadically Uninstall fails after catalyst driver installed in Minimal method

R1000-LP R1305G / R1102G Only

- 40. S3 resume fails after around 250 cycles

d. Eyefinity (R1000, V1000, V2000)

- 41. Green display observed with 3x1 Eyefinity arrangement
- 42. Setup failed Error during hot unplug after quick Eyefinity
- 43. Tearing with Eyefinity: All displays will be tear free only if all displays are using the same timing and same connector type

44. Display blank out is observed for Eyefinity in portrait mode.
45. Sporadically system restart is observed during Video playback with Eyefinity enabled
46. Sporadically Display blank out, system hang, BSOD is observed during video playback with Eyefinity arrangement
47. Resolution mismatch occurs with 5x1 SLS configuration. This is applicable only to dGPU
48. Eyefinity is not functional with mix of DP and HDMI monitors
49. Frequently video playback corruption observed while performing windowed to full screen mode with Eyefinity enabled
50. Using Quick Setup Vertical position Eyefinity configuration fails for 1st time
51. Sporadically observing system hung during reboot with 2x1 or 1x2 Eyefinity configuration.

e. [XGBE \(R1000 / V1000 Series Bilby\)](#)

52. 1G & 10G network do not establish with backplane mode selected in BIOS.
53. Link UP fails in normal reboot following to PXE boot.
Workaround: Do complete power cycle or hot-plug of ethernet ports.
54. High CPU Utilization noticed on few boards while running TCP/UDP IPv4 dual-port bidirectional traffic using NTTTCP Tool
55. Direct Peer to Peer network connection using 1G, 10G fiber channel is not supported on both SFP+ and RJ45 ports.
Workaround: Use External Switch for e.g. NetGear to perform Peer to Peer data transfer.
56. Can't concurrently enable SFP+ and RJ45 interfaces. No plan to fix it.
57. On RJ45 rework boards, use Marvel-Phy-firmware (default version x3310fw_0_3_4_0_9445) for both 1G/10G. Check required BIOS settings to enable RJ45 interfaces.
58. 2.5G mode works only with SFP+ DAC cable without using any switch. Verified using FS DAC cable attached with SFP transceivers. Check BIOS settings to enable 2.5G speed.
59. 2.5G Network connectivity fails after suspend resume
60. Can't mix 2.5G & 1/10G Ethernet SFP ports. No plan to fix it.
61. No IEEE 1588 Timestamp support . No plan to fix it.
62. No receive split header support
63. Following features should be functional but have not been fully validated: Priority and VLAN (VLAN Priority Control), RMON Counter, and VLAN support
64. Sporadically, network-connections may show inappropriate network-name instead of corporate network name
65. Sporadically, doing disable/enable interface may not function well.
Workaround: Restart the system
66. Network icon may give slow or no response on hot-unplug of 2.5G SFP+ and sporadically on 10G modules

Workaround: Disable/enable interface

67. Sporadically, 2.5G mode may take longer time to get LINK after boot or suspend/resume.

Workaround: Disable/enable interface

68. Sporadically, system may hang when run bi-directional traffic on dual ports for long time
69. Observed delayed or no LINK with Intel 10G SFP AFBR-709DMZ-IN2 and few Finisar 10G SFP modules.
70. On low power products, 10G throughput is less than 50% for both TCP & UDP protocols. Use Jumbo frames and multi-threaded applications for better network throughput.
71. 10G UDP throughput on MTU 1500 can be improved with multiple threads and jumbo frames.
72. Sporadically, changing to MTU-9014 fails.

f. Prairie Falcon

73. BSOD is observed on Suspend/Resume after booting on Windows installed on eMMC storage
74. In Legacy driver 21.09.04.02, Catalyst Driver release notes information missing "(#11 missing)".
75. SW version Information's not available in RSX Software tab

g. Multi-GPU (mGPU)

76. Supported configuration: iGPU and 1xdGPU. We do not support 2x dGPU
77. H.265 video corruption observed during dragging of video from iGPU to dGPU

h. Side-by-Side usecase

78. Usecase is verified connecting non-legacy dGPU to legacy platform
79. After uninstalling 21.20.16 non-Legacy driver, AMD Radeon UI not available
Workaround: No issue observed after uninstalling both the driver 21.20.16 and 21.09.04.02 drivers
80. After installing 21.20 non-Legacy driver "Display" option not listing under AMD Radeon Software settings
81. After installing both Legacy driver and non-legacy driver, only non-legacy driver is listed under control panel. (While Un-install both drivers will list for selecting specific driver un-installation)
82. Feature applicable only to Win10.

13. Notes on Validation

1. The driver for RS5 OS is tested after installing following Win10 RS5 OS updates: [KB4465065](#), [KB4505658](#), [KB4509095](#) and [KB4512937](#)
2. Below are the SFP/RJ45 modules used in the XGBE validation:

Type	Model
1G SFP - RJ45	BEL
1G SFP - RJ45	Finisar
10G SFP+ passive direct cable	Finisar
10G SFP optical	Finisar
10G SFP optical	Intel

14. Notes on older legacy dGPU

dGPU	E6460	Seymore	Driver: x - 15.201.1701	Win 7 32/64, Win 10 RS5 64bit
dGPU	E6760	Whistler		

15. Support

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

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