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1. Overview

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

2. Windows Driver Support

Legacy Graphics Driver Support Win 7 64 bit	19.50.23.01
Windows Chipset Driver	AMD_Software_2.05.27.117
OS Support	Windows 7 x64
Platform	MF, PF, BF, BE, SE, LX, eKB, dGPUs

Graphics Driver support Win 10 64 bit	20.45.01.05
Windows Chipset Driver	AMD_Software_2.10.08.031
OS Support	Windows 10 20H1 x64 Windows 10 RS5 x64
Platform	V2000 Platform (Celadon) R1000 Platform (Bilby) V1000 Platform (Bilby & Dibbler) Polaris dGPU MF, PF, BF, BE, SE, LX, eKB, dGPUs

3. SW Driver & SoC support

SoC	AMD Program	Windows 7	Windows 10 RS5	Windows 10 20H1
		64 bit	64 bit	64 bit
V2000 Series	Renoir		X	X
R1000 Series	Picasso / RV2		X	X
V1000 Series	Raven		X	X
eKB	Kabini	X	X	X
SE, LX	Mullins	X	X	X
BE	Kaveri	X	X	X
MF	Carrizo	X	X	X
BF	Carrizo	X	X	X
PF	Stoney Ridge	X	X	X

dGPU	Program	Windows 7	Windows 10 RS5	Windows 10 20H1
		64 bit	64 bit	64 bit
E8860	Venus	X	X	X
E8870	Strato	X	X	X
E8950	Amethyst	X	X	X
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

Legend:

- X- supported
- Blank- Not supported

4. Supported feature list

Features Group	Features category	V2000 Series	R1000 Series	V1000 Series	Legacy SoC	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	No	No
Multimedia	VP9 decode	Yes	Yes	Yes	No	No
Multimedia	10-bit decode	Yes	Yes	Yes	PF: Yes Other: No	No
Audio	DP Audio	Yes	Yes	Yes	Yes	Yes
Multi GPU	Refer table for dGPU pairing	No	R1000 LP: No, Others: Yes	Yes	Yes	Yes
Eyefinity	Auto Eyefinity (MST)	No	Yes	Yes	Yes	Yes
Eyefinity	Mixed rotation	No	n/a	n/a	Yes	Yes
Eyefinity	Mixed Alignment	No	Yes	Yes	Yes	Yes
Eyefinity	Tiled display SLS(4x1,3x1,2x1etc..)	No	Yes	Yes	Yes	Yes
Eyefinity	Mixed Tiled display (2x2 ,1x3 etc...)	No	Yes	Yes	Yes	Yes
Eyefinity	Tiled Groups (1x2+1 ,1x2 + 1x2 etc...)	No	Yes	Yes	Yes	Yes
Eyefinity	Multi GPU (Eyefinity on single GPU)	No	Yes	Yes	Yes	Yes
Eyefinity	Multi GPU (Eyefinity on both GPU)	No	Yes	Yes	No	No

Eyefinity	Bezel Compensation	No	Yes	Yes	Yes	Yes
EDID management	Advance Feature	No	Yes	Yes	Yes	Yes
Custom timing	Advance Feature	No	Yes	Yes	Yes	Yes
10-bit color	Advance Feature	Yes	Yes	Yes	Yes	Yes
dGMA	OpenGL	No	R1000 LP: No, Others: Yes	Yes	BE: Yes Other: No	Yes
dGMA	OpenCL	No	R1000 LP: No, Others: Yes	Yes	BE: Yes Other: No	Yes
Peripherals	AHCI Drivers	Yes	Yes	Yes	Yes	Yes
Peripherals	AMD PSP Drivers	Yes	Yes	Yes	Yes	Yes
Peripherals	USB 3.0 Driver	Yes	Yes	Yes	Yes	Yes
Peripherals	eMMC driver (HS400 mode only)	No	Yes	Yes	No	No
Peripherals	Ethernet driver	No	Yes	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
IOSDK	SMBUS	No	Yes	Yes	Yes	Yes
IOSDK	Watchdog	No	Yes	Yes	Yes	Yes
IOSDK	SPI	No	Yes	Yes	Yes	Yes
IOSDK	GPIO	No	Yes	Yes	Yes	Yes

5. SoC Display support

APUs	No of display
V2000 Series	4
R1000 LP B4/B2	3/2
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

6. Multi GPU (APU+ dGPU) pairing support

APU (iGPU)	dGPU
R1000 Series other than R1000 LP	E9260, E9550, E9171, E9172, E9173, E9174, E9175, E9390, E9560, E9565
V1000 Series	E9260, E9550, E9171, E9172, E9173, E9174, E9175, E9390, E9560, E9565
MF, BF	E9260, E9550, E9171, E9172, E9173, E9174, E9175, E9390, E9560, E9565(MF)

7. Platform configurations

a. 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	RCO1000A
VRAM setting	512MB
RAM (DDR4)	2x8GB SODIMM 2667 MT/s (Celadon socketed) 1x16GB SODIMM 3200 MT/s(Celadon DM Nova) 2x16GB SODIMM 3200 MT/s (Celadon DM 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

b. R1000 Platform (Bilby)

R1000 Platform (Bilby)	
SoC	R1000 Series
OPN Details, Base Frequency	R1505G (B2 15W), 2400 MHz R1606G (B4 15W), 2600 MHz R1305G (LP B4 10W,8W) 1500 MHz R1102G (LP B2 6W) 1200 MHz
BIOS version	RBB1205C
VRAM setting	4 GB
RAM (DDR4)	16 GB (LP B2 6W supports single DIMM)
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	M.2 SATA SSD

c. V1000 Platform (Bilby)

V1000 Platform (Bilby)	
SoC	V1000 Series
OPN Details, Base Frequency	V1807B (B10 45W APU), 3350 MHz V1756B (B8 45W APU), 3250 MHz V1605B (B8 15W APU), 2000 MHz V1202B (B3 15W APU), 2300 MHz V1500B (16W NPU), 2200 MHz

	V1780B (45W NPU), 3350 MHz
BIOS version	RBB1205C
VRAM setting	4 GB
RAM (DDR4)	16 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	M.2 SATA SSD

d. V1000 Platform (Dibbler)

Dibbler	
SoC	V1000 Series
OPN Details, Base Frequency	V1807B (B10 45W), 3350 MHz V1756B (B8 45W), 3250 MHz V1605B (B8 15W), 2000 MHz V1202B (B3 15W), 2300 MHz
BIOS version	RDB1109GA
VRAM setting	4 GB
RAM (DDR4)	16 GB
Display Convertors / Dongles Used	DP to HDMI, DP to VGA, DP to DVI, mDP
Storage disk	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
	015.050.000.001.00000 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

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	
SBDrv:SFHI2C	Yes	No	Yes	
SBDrv:I2C	Yes	No	Yes	
SBDrv:SMBus	Yes	No	Yes	
SBDrv:UART	Yes	No	Yes	Max 3M baud-rates
Audio:ACPBUS	Yes	Yes	No	
Audio:HDMI	Yes	Yes	No	
Audio:SWR	Yes	Yes	No	
Audio:HDABus	Yes	No	No	Manual installation required using the Windows Device Manager tool to update the respective drivers
Audio:I2S	Yes	Yes	No	
Audio:I2STDM	NO	Yes	No	
IOSDK	NO	No	No	I2S not applicable on V2000.
XGBE	Yes	No	Yes	Not applicable for V2000
Ryzen Power Plan	Yes	No	Yes	For V2000, “ AMD Processor Power Management Support ” gets installed as provisional package.
IOV	Yes	No	Yes	
SMBUS	Yes	No	Yes	
CIR	Yes	No	Yes	
USB 3.1	Yes	No	Yes	

9. SW Package - Graphics Driver Version

Graphics driver package is also termed as ‘ESE Q4 Driver’ or ‘Radeon Software’.

Below are its release number and AMDVER details.

Release Number	AMDVER
20.45.01.05	2020.1016.0415.7656

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

S.No	SW Driver Description	Version
1	Radeon Software Version	2020.1016.0415.7656
2	Radeon Software Edition	Adrenalin
3	Driver Packaging Version	20.45.01.05-201016a-360315C
4	2D Driver Version	8.1.1.1634
5	Direct3D®	9.14.10.01471
6	OpenGL®	26.20.11000.14757
7	AMD Audio Driver	10.0.1.16
8	Vulkan™ Driver	2.0.159
9	Vulkan™ API	1.2.152

10. Issues Fixed from previous SW package release

a. R1000 & V1000 Platform (Bilby)

1. EDID Tab is not available in “AMD Radeon Software” page in 19.50 driver
2. Additional Settings" option is not observed in "AMD Radeon Settings Lite app"
3. Observing error message (Error Code:0x803FB005) while installing AMD Radeon Settings Lite from Microsoft Store
4. System will be stuck rotating in restart logo after long run of SST application”
5. EDID Emulation functionality is not working on R1000 LP Platform
6. Display blank out observed after removal of emulation with Lane settings
7. Observed Memory dump (bugcheck- CRITICAL_PROCESS_DIED (ef)) while performing long run S3 cycles
8. Sporadically (3/5 times) TDR (117)) observed while performing hot plug scenarios with DP and HDMI display combination

11. Known Issues/Limitations

a. V2000 Platform (Celadon)

1. Advanced Features (EDID, Eyefinity) are not validated.
2. Display flicker observed with TypeC-to-HDMI converter cable
Workaround: Use TypeC-to-DP cable
3. Chipset driver installs power plan “AMD Processor Power Management Support” in provisional packages.
4. Modern Standby on RS5 is not validated with SATA SSD.
Workaround: Modern Standby on RS5 is validated with NVMe disk and works fine
5. BIOS settings required for Modern Standby (default settings):
 - 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>
6. BIOS settings to enable S3:
 - I. AMD PBS ->S3/Modern Standby S3 enable
 - II. Boot UEFI OS Fast Boot Option --> Disable
7. 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
8. Frequently (3/5 times) one of the display blank out observed while performing Reboot function with MST HUB
9. One of the display blank out observed while performing Reboot/Shutdown function with MST Daisy chain.
10. USB-C to HDMI doesn't work on USB-C Port 1 when 3 monitors are connected

11. Observed one of the display's resolution downgrading to 1280x720 resolution with 3 display connecting 1st time after flashing fresh OS

Nova Platforms

12. Yellow bang observed for UCM_UCSI ACPI on Nova boards.
13. Sporadically 3/5 DP display blank out observed for USB-DP2 HDMI port and USB-DP3 HDMI ports
14. DP display blank out observed with hotplug/ hot unplug on USB-DP3 HDMI and USB-DP2 HDMI ports
15. Sporadically (3/10 times) one of the display goes blank while performing Reboot and S3 function

Note: Check the V2000 Celadon/Renoir Platform Known Issues document for issues affecting the platform.

b. R1000 & V1000 Platform (Bilby)

16. "Try Complex Eyefinity" is not available in Radeon UI
Workaround: Use C:\Program Files (x86)\AMD\CNext\CCCSlim
17. 3Dmark benchmark performance is reduced.
18. 4-wire UART works only with 115200 baud-rate on R1000 & V1000 Platform
Workaround: Use 2-wire UART to use 3M baud-rate
19. SD Card as bootable device does not support High Speed (HS) and at UHS I – DDR50
20. In R1000_LP EDID connection type for connector 3 is showing as Type-C (should show unknown)
21. Frames Drop and video lag are observed with H.265 video playback using Windows Media Player.
Workaround: Use M&Tv app.
22. BSOD is observed when running reboot cycles with Eyefinity enabled
23. MPEG/H.264 playback stutter observed after switching from windowed mode to full screen and vice versa
24. Blurriness is overserved in system after enabling Freesync. The issue is specific to Windows 10 RS5 OS
Workaround: If the issue is observed change the monitor resolution to 4k
25. Flashing the already flashed BIOS using SPI tool causes system boot failure.
Flashing any other BIOS doesn't cause any issues
Workaround: Flash the BIOS again using Dediprogram
26. ROM Armor is unsupported feature for SPI ROM driver

R1000-LP R1305G / R1102G Only

27. 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

28. S3 resume fails after around 250 cycles

XGBE (R1000 / V1000 Series)

29. 1G & 10G network do not establish with backplane mode selected in BIOS.

30. Link UP fails in normal reboot following to PXE boot.

Workaround: Do complete power cycle or hot-plug of ethernet ports.

31. High CPU Utilization noticed on few boards while running TCP/UDP IPv4 dual-port bidirectional traffic using NTTTCP Tool

32. 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.

33. Can't concurrently enable SFP+ and RJ45 interfaces.

34. 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.

35. 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.

36. 2.5G Network connectivity fails after suspend resume

37. Can't mix 2.5G & 1/10G Ethernet SFP ports

38. No IEEE 1588 Timestamp support

39. No receive split header support

40. Following features should be functional but have not been fully validated:

Priority and VLAN (VLAN Priority Control), RMON Counter, and VLAN support

41. Sporadically, network-connections may show inappropriate network-name instead of corporate network name

42. Sporadically, doing disable/enable interface may not function well.

Workaround: Restart the system

43. Network icon may give slow or no response on hot-unplug of 2.5G SFP+ and sporadically on 10G modules

Workaround: Disable/enable interface

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

Workaround: Disable/enable interface

45. Sporadically, system may hang when run bi-directional traffic on dual ports for long time

46. Observed delayed or no LINK with Intel 10G SFP AFBR-709DMZ-IN2 and few Finisar 10G SFP modules.

47. 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.

- 48. 10G UDP throughput on MTU 1500 can be improved with multiple threads and jumbo frames.
- 49. Sporadically, changing to MTU-9014 fails.

c. V1000 Platform (Dibbler only)

- 50. SD Card as bootable device does not support UHS I - DDR50
- 51. BSOD is observed on V1605B after installing Q2-2018 platform stack
Workaround: Use external power supply to get rid of this issue

d. Prairie Falcon

- 52. BSOD is observed on Suspend/Resume after booting on Windows installed on eMMC storage

e. Multi-GPU (mGPU)

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

f. Eyefinity

- 55. Tearing with Eyefinity: All displays will be tear free only if all displays are using the same timing and same connector type
- 56. Tearing observed during window drag with Mixed dimension Eyefinity Configuration
- 57. Display blank out is observed for Eyefinity in portrait mode.
- 58. Sporadically system restart is observed during Video playback with Eyefinity enabled
- 59. Sporadically (2/10) Display blank out, system hang, BSOD is observed during video playback with Eyefinity arrangement
- 60. Resolution mismatch occurs with 5x1 SLS configuration. This is applicable only to dGPU
- 61. Eyefinity is not functional with mix of DP and HDMI monitors

12. Notes on Validation

1. The driver for RS5 OS is tested after installing following Win10 RS5 OS updates: [KB44465065](#), [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

13. Notes on older legacy dGPU

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

14. Support

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

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