

Graphics Boards for *hyperMILL*®

System requirements: graphics engine requires an OpenGL accelerated graphics display driver. Latest generation of GPU with OpenGL 4.0 or higher is recommended.

The following table gives the list of graphic cards and display driver suggested. **Please note:** This does not mean that *hyperMILL*® can only run on these specific systems. These are only the systems that are currently running automated test or are currently used in daily work. *hyperMILL*® should run on any graphics system that supports a complete implementation of OpenGL.

Reference driver can be installed on notebook GPUs. However, please note that your notebook original equipment manufacturer (OEM) provides drivers for your specific notebook on their website. Please check with your notebook OEM about recommended software updates for your notebook.

On system with two graphic boards select the accelerated GPU (AMD/NVIDIA) instead of the integrated one, from the relative display control panel. With NVIDIA Quadro/RTX board we recommend to use the "Workstation app - dynamic streaming" or the "3D App - Visual Simulation" profiles from the NVIDIA control panel.

Windows update may change the display driver or video card settings without any notification. We recommend checking after the Windows update. The hyperCAD-S\<version>\systemchecktool.exe application may help you to identify problems.

The recommended graphics drivers do not consider the connection of additional peripheral devices. Connected devices can affect the quality and performance of the graphics card. Therefore OPEN MIND Technologies recommends to contact the hardware manufacturer in these cases. All liability is excluded, all information is given without guarantee of being complete, correct and up-to-date.

Brand	Year	Series	Product	Windows 10	Windows 11
Quadro / RTX desktop workstation	2015	Maxwell	M2000	581.42 582.16	581.42 582.16
			M4000		
			M5000		
			M6000		
	2017	Pascal	P400	581.42 582.16	581.42 582.16
			P600		
			P1000		
			P2000		
			P4000		
			P5000		
			P6000		
			GP100		
	2018	Pascal	P620	581.42 582.16	581.42 582.16
			P2200		
			P5200		
	2019	Turing	RTX 3000	581.42 582.16	581.42 582.16
			RTX 4000		
			RTX 5000		
			RTX 6000		
	2021	Turing	RTX 8000	581.42 582.16	581.42 582.16
			T400		
			T600		
	2022	Ampere	T1000	581.42 582.16	581.42 582.16
			RTX A2000		
			RTX A4000		
			RTX A4500		
			RTX A5000		
	2023-2024	Ada	RTX A5500	581.42 582.16	581.42 582.16
RTX A6000					
RTX 2000					
RTX 4000					
2025	Blackweel	RTX 4500	581.42 582.16	581.42 582.16	
		RTX 5000			
		RTX 6000			
		RTX PRO 2000			
		RTX PRO 4000			
			RTX PRO 4500		
			RTX PRO 5000		
			RTX PRO 6000		

		Brand	Year	Series	Product	Windows 10	Windows 11
NVIDIA	Quadro / RTX notebook		2015	Maxwell	M500M	581.42 582.16	581.42 582.16
					M600M		
					M1000M		
					M2000M		
					M3000M		
					M4000M		
			M5000M				
			2016	Maxwell	M620	581.42 582.16	581.42 582.16
					M1200		
					M2200		
			2017	Pascal	P600	581.42 582.16	581.42 582.16
					P1000		
					P2000		
					P3000		
					P4000		
			2018	Pascal	P5000	581.42 582.16	581.42 582.16
					P3200		
					P4200		
			2019	Turing	P5200	581.42 582.16	581.42 582.16
					T1000		
			2020	Turing	T2000	581.42 582.16	581.42 582.16
					RTX 3000		
					RTX 4000		
					RTX 5000		
			2021	Turing	RTX 6000	581.42 582.16	581.42 582.16
					T500 / T550		
					T600		
			2022	Ampere	T1200	581.42 582.16	581.42 582.16
					RTX A1000		
					RTX A2000		
					RTX A3000		
					RTX A4000		
RTX A4500							
2023-2024	Ada	RTX A5000	581.42 582.16	581.42 582.16			
		RTX A5500					
		RTX 1000					
		RTX 2000					
		RTX 3000					
2025	Blackweel	RTX 3500	581.42 582.16	581.42 582.16			
		RTX 4000					
		RTX 5000					
		RTX PRO 500					
		RTX PRO 1000					
		RTX PRO 2000	581.42 582.16	581.42 582.16			
		RTX PRO 3000					
		RTX PRO 4000					
		RTX PRO 5000					

Brand	Year	Series	Product	Windows 10	Windows 11			
AMD - ATI	2014	W	W600	15.301.2601 18Q1 - 23.20.15018.16 20Q1 - 26.20.14001.22011 20Q3 - 27.20.1027.2005				
			W5000					
			W7000					
			W8000					
			W9000					
	2015	W	W2100	15.301.2601 18Q1 - 23.20.15018.16 20Q1 - 26.20.14001.22011 20Q3 - 27.20.1027.2005				
			W4100					
			W5100					
			W7100					
			W8100					
	2017	WX	WX 2100	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2			
			WX 3100					
			WX 4100					
			WX 5100					
WX 7100								
2019		WX	WX 3200	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2			
			WX 8200					
		2020	W			W 5500	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2
						W 5700		
		2021-2022	W			W 6400	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2	21Q4 - 30.0.14011.2006 22Q2 - 30.0.21020.2
W 6600								
W 6800								
2023	W	W 7500	23Q4 - 31.0.23013.3005	23Q4 - 31.0.23013.3005				
		W 7600						
		W 7700						
		W 7800						
		W 7900						
Radeon Pro / workstation	2015	R9	270	Crimson 16.2.1 Driver 15.301.1901 Adrenalin 19.5.2 - 26.20.11015.5009 Adrenalin 20.4.2 - 26.20.15029.27017				
			280					
			290					
			380					
			390					
	2016	RX 400	460	Adrenalin 19.5.2 - 26.20.11015.5009 Adrenalin 20.4.2 - 26.20.15029.27017 Adrenalin 21.8.2 - 27.20.22025.1006 Adrenalin 22.2.1 - 30.0.14023.7007	Adrenalin 22.2.1 - 30.0.14023.7007			
			470					
			480					
	2018	RX 500	550	Adrenalin 19.5.2 - 26.20.11015.5009 Adrenalin 20.4.2 - 26.20.15029.27017 Adrenalin 21.8.2 - 27.20.22025.1006 Adrenalin 22.2.1 - 30.0.14023.7007	Adrenalin 22.2.1 - 30.0.14023.7007			
			560					
			580					
			590					
	2019	VEGA	VEGA Series	Adrenalin 20.4.2 - 26.20.15029.27017 Adrenalin 21.8.2 - 27.20.22025.1006 Adrenalin 22.2.1 - 30.0.14023.7007	Adrenalin 22.2.1 - 30.0.14023.7007			
	2020	RX 5000	5500	Adrenalin 20.4.2 - 26.20.15029.27017 Adrenalin 21.8.2 - 27.20.22025.1006 Adrenalin 22.2.1 - 30.0.14023.7007	Adrenalin 22.2.1 - 30.0.14023.7007			
			5600					
			5700					
	2021	RX 6000	6500	Adrenalin 21.8.2 - 27.20.22025.1006 Adrenalin 22.2.1 - 30.0.14023.7007	Adrenalin 22.2.1 - 30.0.14023.7007			
			6600					
6700								
6800								
6900								