

Video Output Information

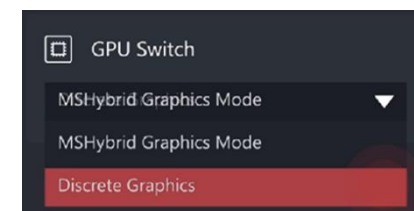
1. In the External Display Output column, the supported resolutions and the refresh rates for each display port are listed.
2. The port listed in front represents the port on the laptop, and the other one represents the port connected on the external monitor.
3. The Display Ports column shows the type and number of output connectors.
*The miniDP and Type-C w/DP ports on the laptops listed in this document support DP v1.4 unless stated otherwise.
4. See the list of used acronyms in the right table.
5. The MUX switch is an option that allows users to run the system in MSHybrid mode or Discrete Graphics mode, and can be configured in the General Settings in MSI Centers (MSI Center/ MSI Center Pro) on laptops that support it.
6. To know which graphics card the display port is wired to, check where the display port is shown in the table, or check the connected graphics in the “Set PhysX Configuration” page in NVIDIA Control Panel.

External Display Output	
Max Resolution	Max Refresh Rate
TBT-HDMI ¹ : 4096x2160 @60Hz TBT-DP: 5120x2160 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI ¹ : 1920x1080 @240Hz TBT-DP: 1920x1080 @240Hz TBT-Type C(TB/DP): 1920x1080 @240Hz

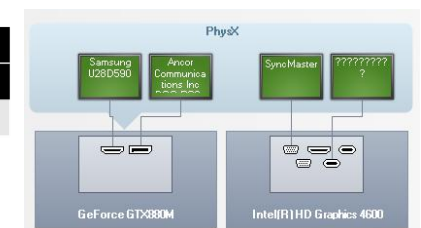
Max Resolution
TBT-HDMI ¹ : 4096x2160 @60Hz TBT-DP: 5120x2160 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz
NB
Monitor

Display Ports	
iGPU	dGPU
TBT 4 ³ x1	-
Type-C w/DP x1	-
-	HDMIx1

Acronym	Description
DP/mDP	Display Port/ mini Display Port
HDMI	High-Definition Multimedia Interface
TBT	Thunderbolt
iGPU/dGPU	Integrated GPU/ Dedicated GPU



Display Ports	
iGPU	dGPU
TBT 4 ³ x2	-



MSI Laptops with Core Ultra Intel Processor

Gaming

- [Cyborg Series](#)
- [Stealth Series](#)
- [Pulse Series](#)

Handheld

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Business & Productivity

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Content Creation

- [Creator Series](#)
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Cyborg Series – 1/2

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Cyborg 15 AI A1VGK	RTX 4070	V	-	Type-C w/DP x1	Type C-DP: 7680x4320 @30Hz Type C-HDMI: 7680x4320 @30Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x1	HDMI-HDMI: 4096x2160 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Cyborg 15 AI A1VFK	RTX 4060	V	-	Type-C w/DP x1	Type C-DP: 7680x4320 @30Hz Type C-HDMI: 7680x4320 @30Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x1	HDMI-HDMI: 4096x2160 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Cyborg 15 AI A1VEK	RTX 4050	V	-	Type-C w/DP x1	Type C-DP: 7680x4320 @30Hz Type C-HDMI: 7680x4320 @30Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x1	HDMI-HDMI: 4096x2160 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Maximum matrix display numbers are tested under MSHybrid mode.

Cyborg Series – 2/2

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
Cyborg 15 AI A1UDXK	RTX 3050	V	-	Type-C w/DP x1	Type C-DP: 7680x4320 @30Hz Type C-HDMI: 7680x4320 @30Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz	3* ²
			-	HDMI x1	HDMI-HDMI: 4096x2160 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Cyborg 15 AI A1UCXK	RTX 2050	V	-	Type-C w/DP x1	Type C-DP: 7680x4320 @30Hz Type C-HDMI: 7680x4320 @30Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz	3* ²
			-	HDMI x1	HDMI-HDMI: 4096x2160 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	

Note:

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*2: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth series – 1/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Stealth 14 AI Studio A1VGG	RTX 4070	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 2560*1440 @240Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	3*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @165Hz	
Stealth 14 AI Studio A1VFG	RTX 4060	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 2560*1440 @240Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	3*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @165Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth series – 2/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Stealth 14 AI Studio A1VEG	RTX 4050	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 2560*1440 @240Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	3*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @165Hz	
Stealth 14 AI Studio A1UDXG	RTX 3050	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 2560*1440 @240Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	3*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @165Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth series – 3/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Stealth 14 AI A1UCXG	RTX 2050	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 2560*1440 @240Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	3*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @165Hz	
Stealth 16 AI Studio A1VIG	RTX 4090	V	-	TBT 4*2 x1 Type-C(DP) x1	TBT-Type C(TB/DP): 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz	TBT-Type C(TB/DP): 1920x1080 @360Hz TBT-HDMI: 1920x1080 @360Hz	4*3
			-	HDMI x1	HDMI: 3840x2160 @120Hz	HDMI: 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth series – 4/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
Stealth 16 AI Studio A1VHG	RTX 4080	V	-	TBT 4* ² x1 Type-C(DP) x1	TBT-Type C(TB/DP): 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz	TBT-Type C(TB/DP): 1920x1080 @360Hz TBT-HDMI: 1920x1080 @360Hz	4* ³
			-	HDMI x1	HDMI: 3840x2160 @120Hz	HDMI: 1920x1080 @240Hz	
Stealth 16 AI Studio A1VGG	RTX 4070	V	TBT 4* ² x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4* ³
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth series– 5/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Stealth 16 AI Studio A1VFG	RTX 4060	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
Stealth 16 AI Studio A1VEG	RTX 4050	V	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth series– 6/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Stealth 16 AI Studio A1UDXG	RTX 3050	V	TBT 4*2x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
Stealth 16 AI A1UCXG	RTX 2050	V	TBT 4*2x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth Series – 7/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*2	Max Resolution	Max Refresh Rate	
Stralth 18 AI Studio A1VIG	RTX 4090	V	TBT 4*1 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @144Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(DP): 3840x2160 @144Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
Stealth 18 AI Studio A1VHG	RTX 4080	V	TBT 4*1 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @144Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	4*3
			-	Type-C w/DP x2	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(DP): 3840x2160 @144Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: Thunderbolt ports wired to the iGPU support external displays in MSHybrid Graphics and Integrated Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*2: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Stealth Series – 8/8

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*2	Max Resolution	Max Refresh Rate	
Stealth 18 AI Studio A1VGG	RTX 4070	V	TBT 4*1 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @144Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(DP): 3840x2160 @144Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
Stealth 18 AI Studio A1VFG	RTX 4060	V	TBT 4*1 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @144Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	4*3
			-	Type-C w/DP x2	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(DP): 3840x2160 @144Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: Thunderbolt ports wired to the iGPU support external displays in MSHybrid Graphics and Integrated Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*2: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Pulse Series– 1/2

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Pulse 16 AI D1VGKG	RTX 4070	V	-	Type-C(DP alt.)	Type-C(DP alt.)-DP(1.4): 7680x4320 @60Hz Type-C(DP alt.)-HDMI: 7680x4320 @60Hz Type-C(DP alt.)-TBT 3: 5120x2160 @60Hz	Type-C(DP alt.)-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Pulse 16 AI D1VFKG	RTX 4060	V	-	Type-C(DP alt.)	Type-C(DP alt.)-DP(1.4): 7680x4320 @60Hz Type-C(DP alt.)-HDMI: 7680x4320 @60Hz Type-C(DP alt.)-TBT 3: 5120x2160 @60Hz	Type-C(DP alt.)-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Pulse 16 AI D1VEKG	RTX 4050	V	-	Type-C(DP alt.)	Type-C(DP alt.)-DP(1.4): 7680x4320 @60Hz Type-C(DP alt.)-HDMI: 7680x4320 @60Hz Type-C(DP alt.)-TBT 3: 5120x2160 @60Hz	Type-C(DP alt.)-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Maximum matrix display numbers are tested under MSHybrid mode.

Pulse Series– 2/2

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Pulse 17 AI D1VGKG	RTX 4070	V	-	Type-C(DP alt.)	Type-C(DP alt.)-DP(1.4): 7680x4320 @60Hz Type-C(DP alt.)-HDMI: 7680x4320 @60Hz Type-C(DP alt.)-TBT 3: 5120x2160 @60Hz	Type-C(DP alt.)-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Pulse 17 AI D1VFKG	RTX 4060	V	-	Type-C(DP alt.)	Type-C(DP alt.)-DP(1.4): 7680x4320 @60Hz Type-C(DP alt.)-HDMI: 7680x4320 @60Hz Type-C(DP alt.)-TBT 3: 5120x2160 @60Hz	Type-C(DP alt.)-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Pulse 17 AI D1VEKG	RTX 4050	V	-	Type-C(DP alt.)	Type-C(DP alt.)-DP(1.4): 7680x4320 @60Hz Type-C(DP alt.)-HDMI: 7680x4320 @60Hz Type-C(DP alt.)-TBT 3: 5120x2160 @60Hz	Type-C(DP alt.)-HDMI: 1920x1080 @240Hz	3*2
			-	HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Maximum matrix display numbers are tested under MSHybrid mode.

Prestige Series – 1/4

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
Prestige 16 AI Evo B1MG	UMA	-	TBT 4* ² x2	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz	4* ³
			HDMI x1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Prestige 16 AI Studio B1VGG	RTX4070	-	TBT 4* ² x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(DP): 3840x2160 @144Hz TBT-TBT: 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-Type C(DP): 2560*1440 @240Hz TBT-TBT: 5120x2160 @60Hz	4* ³
			Type-C w/DP x1	-	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(DP): 3840*2160 @144Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560*1440 @240Hz Type C-TBT: 5120x2160 @60Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Prestige Series – 2/4

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Prestige 16 AI Studio B1VFG	RTX4060	-	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(DP): 3840x2160 @144Hz TBT-TBT: 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-Type C(DP): 2560*1440 @240Hz TBT-TBT: 5120x2160 @60Hz	4*3
			Type-C w/DP x1	-	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(DP): 3840*2160 @144Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560*1440 @240Hz Type C-TBT: 5120x2160 @60Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
Prestige 16 AI Studio B1VEG	RTX4050	-	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(DP): 3840x2160 @144Hz TBT-TBT: 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @380Hz TBT-Type C(DP): 2560*1440 @240Hz TBT-TBT: 5120x2160 @60Hz	4*3
			Type-C w/DP x1	-	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C-Type C(DP): 3840*2160 @144Hz Type C-TBT: 5120x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @380Hz Type C-Type C(DP): 2560*1440 @240Hz Type C-TBT: 5120x2160 @60Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode

Prestige Series – 3/4

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
Prestige 14 AI Studio C1VFG	RTX 4060	-	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	4*3
			Type-C w/DP x1	-	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
Prestige 14 AI Studio C1VEG	RTX 4050	-	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @60Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	4*3
			-	Type-C w/DP x2	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(DP): 2560x1440 @240Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode

Prestige Series – 4/4

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU ^{*1}	Max Resolution	Max Refresh Rate	
Prestige 13 AI Evo A1VMG	-	-	TBT 4 ^{*2} x1	-	TBT-DP: 5120x2160 @60Hz TBT-type-C(TB/DP): 5120x2160 @60Hz	TBT-DP: 1920x1080 @380Hz TBT-type-C(TB/DP): 1920x1080 @380Hz	4 ^{*3}
			HDMI x1	-	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU support external displays in MSHybrid Graphics and Integrated Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Summit Series – 1/2

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
Summit E16 AI Studio A1VFTG	RTX4060	Y	TBT* ² x1		TBT-DP: 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT Type C(DP)- TBT: 3840x2160 @60Hz	TBT-DP: 1920x1080 @360Hz TBT-HDMI: 1920x1080 @240Hz TBT-TBT: 5120x2160 @60Hz TBT Type C(DP)- TBT: 2560*1440 @240Hz	4* ³
			Type C (DP Alt) x1		Type C(DP)-TBT: 5120x2160 @60Hz Type C(DP)-DP: 5120x2160 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-TBT: 2560*1440 @240Hz Type C(DP)-DP: 1920x1080 @360Hz Type C(DP)-HDMI: 1920x1080 @180Hz	
				HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Summit E16 AI Studio A1VETG	RTX4050	Y	TBT* ² x1		TBT-DP: 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT Type C(DP)- TBT: 3840x2160 @60Hz	TBT-DP: 1920x1080 @360Hz TBT-HDMI: 1920x1080 @240Hz TBT-TBT: 5120x2160 @60Hz TBT Type C(DP)- TBT: 2560*1440 @240Hz	4* ³
			Type C (DP Alt) x1		Type C(DP)-TBT: 5120x2160 @60Hz Type C(DP)-DP: 5120x2160 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-TBT: 2560*1440 @240Hz Type C(DP)-DP: 1920x1080 @360Hz Type C(DP)-HDMI: 1920x1080 @180Hz	
				HDMI x 1	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU support external displays in MSHybrid Graphics and Integrated Graphics mode only. (<https://www.msi.com/fag/fag-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Summit Series – 2/2

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU	Max Resolution	Max Refresh Rate	
Summit E16 AI Evo A1MTG	UMA	X	TBT* ¹ x2	-	TBT Type C(DP)- TBT: 3840x2160 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-DP: 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz TBT-Type C: 2560*1440 @75Hz	TBT Type C(DP)-TBT: 2560*1440 @240Hz TBT-TBT: 5120x2160 @60Hz DP:1920x1080 @360Hz TBT-HDMI: 1920x1080 @240Hz TBT-Type C: 2560*1440 @75Hz	4* ²
			HDMI x 1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Summit E13 AI Evo A1MTG	UMA	X	TBT* ¹ x2	-	TBT Type C(DP)- TBT: 3840x2160 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C: 2560*1440 @75Hz	TBT Type C(DP)-TBT: 2560*1440 @240Hz TBT-TBT: 5120x2160 @60Hz DP:1920x1080 @360Hz TBT-Type C: 2560*1440 @75Hz	4* ²
			HDMI x 1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	

Note:

*1: Thunderbolt ports wired to the iGPU support external displays in MSHybrid Graphics and Integrated Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*2: Maximum matrix display numbers are tested under MSHybrid mode.

Modern Series - 1/1

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU	Max Resolution	Max Refresh Rate	
Modern 15 H AI C1MG	UMA	-	HDMI x1	-	HDMI: 4096x2160@60Hz	HDMI: 1920x1080 @240Hz	3*1
			Type-C w/DP x1	-	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 5120x2160 @60Hz Type C: 3840x2160 @144Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type-C:2560x1440 @240Hz	

Note:

*1: Maximum matrix display numbers are tested under MSHybrid mode.

Venture Series – 1/3

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
VenturePro 17 AI A1VFG	RTX4060	-	Type C (DP Alt) x1	-	Type C(DP)-TBT: 5120x2160 @60Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-TBT: 5120x2160 @60Hz Type C(DP)-DP: 2560x1440 @165Hz Type C(DP)-HDMI: 3840x2160 @120Hz	3
			HDMI x 1* ²		HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840x2160 @120Hz	
VenturePro 17 AI A1VEG	RTX4050	-	Type C (DP Alt) x1	-	Type C(DP)-TBT: 5120x2160 @60Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-TBT: 5120x2160 @60Hz Type C(DP)-DP: 2560x1440 @165Hz Type C(DP)-HDMI: 3840x2160 @120Hz	3
			HDMI x 1* ²		HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840x2160 @120Hz	
VenturePro 16 AI A1VFG	RTX4060	-	Type C (DP Alt) x1	-	Type C(DP)-Type C: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-Type C: 2560*1440 @360Hz Type C(DP)-DP: 2560x1440 @360Hz Type C(DP)-HDMI: 2560x1440 @360Hz	3
			HDMI x 1* ²		HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 2560x1440 @360Hz	
VenturePro 16 AI A1VEG	RTX4050	-	Type C (DP Alt) x1	-	Type C(DP)-Type C: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-Type C: 2560*1440 @360Hz Type C(DP)-DP: 2560x1440 @360Hz Type C(DP)-HDMI: 2560x1440 @360Hz	3
			HDMI x 1* ²		HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 2560x1440 @360Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

*2: HDMI port can connect to an external display via either the iGPU or dGPU, and which graphics card the display output is wired to depends on the Battery Boost setting in MSI Center S.

Venture Series – 2/3

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
VenturePro 15 AI A1VFG	RTX4060	-	Type C (DP Alt) x1	-	Type C(DP)-TBT: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-TBT: 2560*1440 @360Hz Type C(DP)-DP: 1920x1080 @380Hz Type C(DP)-HDMI: 1920x1080 @240Hz	3
			HDMI x 1* ²		HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840*2160 240Hz	
VenturePro 15 AI A1VEG	RTX4050	-	Type C (DP Alt) x1	-	Type C(DP)-TBT: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-TBT: 2560*1440 @360Hz Type C(DP)-DP: 1920x1080 @380Hz Type C(DP)-HDMI: 1920x1080 @240Hz	3
			HDMI x 1* ²		HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840*2160 240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

*2: HDMI port can connect to an external display via either the iGPU or dGPU, and which graphics card the display output is wired to depends on the Battery Boost setting in MSI Center S.

Venture Series – 3/3

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU	Max Resolution	Max Refresh Rate	
Venture 17 AI A1MG	UMA	-	Type C (DP Alt) x1	-	Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-DP: 1920x1080 @380Hz Type C(DP)-HDMI: 1920x1080 @240Hz	3
			HDMI x 1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 1920x1080 @240Hz	
Venture 16 AI A1MG	UMA	-	Type C (DP Alt) x1	-	Type C(DP)-Type C: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-Type C: 2560*1440 @360Hz Type C(DP)-DP: 2560*1440 @360Hz Type C(DP)-HDMI: 2560*1440 @360Hz	3
			HDMI x 1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840*2160 240Hz	
Venture 15 AI A1MG	UMA	-	Type C (DP Alt) x1	-	Type C(DP)-Type C: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-Type C: 2560*1440 @360Hz Type C(DP)-DP: 1920x1080 @380Hz Type C(DP)-HDMI: 1920x1080 @240Hz	3
			HDMI x 1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840*2160 240Hz	
Venture 14 AI A1MG	UMA	-	Type C (DP Alt) x1	-	Type C(DP)-Type C: 5120*1440 144Hz Type C(DP)-DP: 7680x4320 @60Hz Type C(DP)-HDMI: 7680x4320 @60Hz	Type C(DP)-Type C: 2560*1440 @360Hz Type C(DP)-DP: 1920x1080 @380Hz Type C(DP)-HDMI: :2560x1440 @360Hz	3
			HDMI x 1	-	HDMI-HDMI: 7680x4320 @60Hz	HDMI-HDMI: 3840*2160 240Hz	

Creator Series

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU* ¹	Max Resolution	Max Refresh Rate	
Creator 16 AI Studio A1VIG	RTX 4090	V	-	TBT 4* ² x1 Type-C(DP) x1	TBT-Type C(TB/DP): 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz	TBT-Type C(TB/DP): 1920x1080 @360Hz TBT-HDMI: 1920x1080 @360Hz	4* ³
			-	HDMI x1	HDMI: 3840x2160 @120Hz	HDMI: 1920x1080 @240Hz	
Creator 16 AI Studio A1VHG	RTX 4080	V	-	TBT 4* ² x1 Type-C(DP) x1	TBT-Type C(TB/DP): 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz	TBT-Type C(TB/DP): 1920x1080 @360Hz TBT-HDMI: 1920x1080 @360Hz	4* ³
			-	HDMI x1	HDMI: 3840x2160 @120Hz	HDMI: 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Creator Pro Series

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU*1	Max Resolution	Max Refresh Rate	
CreatorPro 16 AI Studio A1VMG	RTX 5000	V	-	TBT 4*2 x1 Type-C(DP) x1	TBT-Type C(TB/DP): 7680x4320 @60Hz TBT-HDMI: 7680x4320 @60Hz	TBT-Type C(TB/DP): 1920x1080 @360Hz TBT-HDMI: 1920x1080 @360Hz	4*3
			-	HDMI x1	HDMI: 3840x2160 @120Hz	HDMI: 1920x1080 @240Hz	
CreatorPro 16 AI Studio A1VKG	RTX 3000	-	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	
CreatorPro 16 AI Studio A1VJG	RTX 2000	-	TBT 4*2 x1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-Type C(TB/DP): 5120x2160 @60Hz	TBT-HDMI: 1920x1080 @180Hz TBT-DP: 1920x1080 @360Hz TBT-Type C(TB/DP): 2560*1440 @75Hz	4*3
			-	Type-C w/DP x1	Type C-HDMI: 7680x4320 @60Hz Type C-DP: 7680x4320 @60Hz Type C-Type C(TB/DP): 3840x2160 @60Hz	Type C-HDMI: 1920x1080 @240Hz Type C-DP: 1920x1080 @360Hz Type C-Type C(TB/DP): 3440*1440 @175Hz	
			-	HDMI x1	HDMI : 7680x4320 @60Hz	HDMI : 1920x1080 @240Hz	

Note:

*1: VR devices will require display ports wired to the dGPU to function correctly.

Display output ports wired to the dGPU support external displays in MSHybrid Graphics and Discrete Graphics mode only.

*2: Thunderbolt ports wired to the iGPU supports external displays in MSHybrid Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*3: Maximum matrix display numbers are tested under MSHybrid mode.

Claw Series

Notebook	GPU	MUX Switch	Display Ports		External Display Output		Matrix Display (incl. NB display)
			iGPU	dGPU	Max Resolution	Max Refresh Rate	
Claw A1M	iGPU	-	TBT 4 ^{*1} *1	-	TBT-HDMI: 7680x4320 @60Hz TBT-DP: 7680x4320 @60Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP): 3840x2160 @144Hz	TBT-HDMI: 1920x1080 @240Hz TBT-DP: 1920x1080 @360Hz TBT-TBT: 5120x2160 @60Hz TBT-Type C(DP):2560x1440 @240Hz	2 ^{*2}

Note:

*1: Thunderbolt ports wired to the iGPU support external displays in MSHybrid Graphics and Integrated Graphics mode only. (<https://www.msi.com/faq/faq-4175>)

*2: Maximum matrix display numbers are tested under MSHybrid mode.