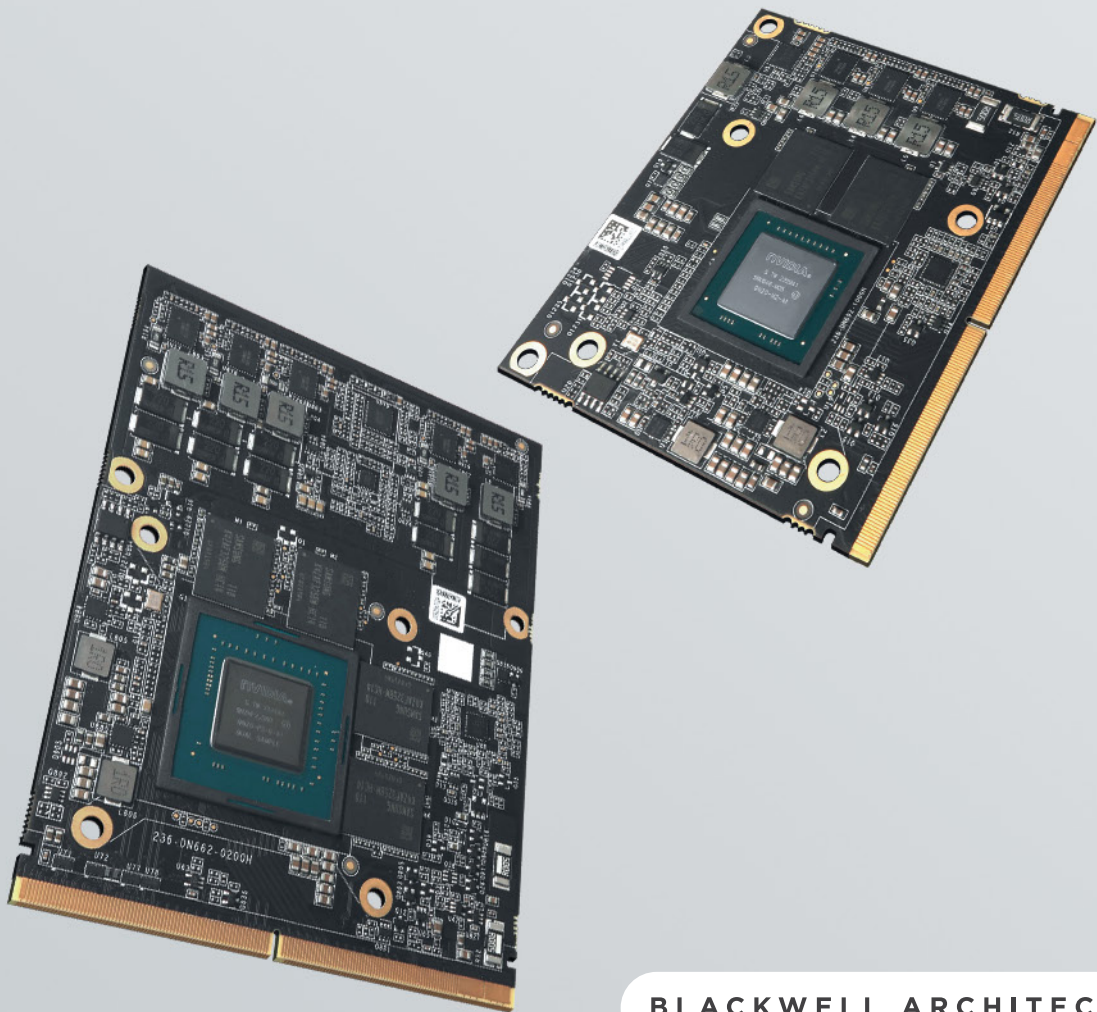


# PROFESSIONAL, EMBEDDED MXM GPU

PRODUCT CATALOG 2025



## BLACKWELL ARCHITECTURE

From ultrasound devices to advanced digital displays and robotics, NVIDIA RTX PRO™ Blackwell Generation Embedded GPU solutions provide excellent performance and power efficiency while meeting the highest quality and reliability standards. No matter the industry, application, or deployment environment, embedded GPU solutions powered by NVIDIA RTX PRO are designed to deliver next gen graphics, compute, deep learning, and AI capabilities to power a wide variety of systems including commercial gaming, healthcare, manufacturing, visual communications, and much more.

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			GPU MODEL	FORM FACTOR	INTERFACE	CUDA CORES	RT CORES	TENSOR CORES	GPU CLOCK	GPU BOOST CLOCK	GPU MEMORY	GPU MEMORY BANDWIDTH	ECC	PEAK GRAPHICS PERFORMANCE (PEAK FP32)	DISPLAY OUTPUTS	MAX SINGLE DISPLAY RESOLUTION	TOTAL GRAPHICS POWER	EOL TIMEFRAME	MTBF (@25°C)
EN22 MXM SERIES																			
BLACKWELL	EMB-G797-A0		NVIDIA RTX PRO 500	MXM 3.1 Type A	PCIe 4.0 x4 / x8	1,792	14 GEN4	56 GEN5	2,160 MHZ	2,565 MHz @ 60W	6GB GDDR7	288 GBPS	-	9.2 TFLOPS	3 x DP 2.1a, HDMI2.1b	7680 x 4320 @ 60Hz	60W	~Q3 2030	TBD
	EMB-G797-B0		NVIDIA RTX PRO 2000	MXM 3.1 Type A	PCIe 4.0 x4 / x8	3,328	26 GEN4	104 GEN5	1,522 MHZ	2,070 MHz @ 60W	8GB GDDR7	384 GBPS	SUPPORTED	13.8 TFLOPS	3 x DP 2.1a, HDMI2.1b	7680 x 4320 @ 60Hz	60W	~Q3 2030	TBD
	EMB-G800-A0		NVIDIA RTX PRO 2000	MXM 3.1 Type B	PCIe 4.0 x4 / x8	3,328	26 GEN4	104 GEN5	2,160 MHZ	2,662 MHz @ 100W	8GB GDDR7	384 GBPS	SUPPORTED	17.7 TFLOPS	3 x DP 2.1a, HDMI2.1b	7680 x 4320 @ 60Hz	100W	~Q3 2030	TBD
	EMB-G798-B1		NVIDIA RTX PRO 4000	MXM 3.1 Type B*	PCIe 4.0 x8 / x16	7,680	60 GEN4	240 GEN5	1,545 MHZ	2,197 MHz @ 115W	16GB GDDR7	896 GBPS	SUPPORTED	33.7 TFLOPS	4 x DP 2.1a, HDMI2.1b	7680 x 4320 @ 60Hz	150W	~Q3 2030	TBD
	EMB-G798-A1		NVIDIA RTX PRO 5000	MXM 3.1 Type B*	PCIe 4.0 x8 / x16	10,496	80 GEN4	320 GEN5	1,402 MHZ	1,935 MHz @ 115W	24GB GDDR7	896 GBPS	SUPPORTED	40.6 TFLOPS	4 x DP 2.1a, HDMI2.1b	7680 x 4320 @ 60Hz	150W	~Q3 2030	TBD
EN21 MXM SERIES																			
ADA LOVELACE	EMB-G733-A0		NVIDIA RTX 2000	MXM 3.1 Type A	PCIe 4.0 x4 / x8	3,072	24 GEN3	96 GEN4	1,635 MHZ	2,115 MHz @ 60W	128-bit 8GB GDDR6	256 GBPS	SUPPORTED	13 TFLOPS	3 x DP 1.4a	7680 x 4320 @60Hz	60W	~Q1 2028	~132,451 hrs
	EMB-G736-A0		NVIDIA RTX 2000	MXM 3.1 Type B	PCIe 4.0 x4 / x8	3,072	24 GEN3	96 GEN4	2,295 MHZ	2,395 MHz @ 115W	128-bit 8GB GDDR6	256 GBPS	SUPPORTED	14.5 TFLOPS	3 x DP 1.4a	7680 x 4320 @60Hz	115W	~Q1 2028	~130,029 hrs
	EMB-G721-A0		NVIDIA RTX 3500	MXM 3.1 Type B	PCIe 4.0 x8 / x16	5,120	40 GEN3	160 GEN4	1,725 MHZ	2,250 MHz @115W	192-bit 12GB GDDR6	432 GBPS	SUPPORTED	23.0 TFLOPS	4 x DP 1.4a, HDMI2.1	7680 x 4320 @60Hz	115W	~Q1 2028	~104,645 hrs
	EMB-G721-B0		NVIDIA RTX 5000	MXM 3.1 Type B	PCIe 4.0 x8 / x16	9,728	76 GEN3	304 GEN4	1,425 MHZ	2,115 MHz @ 115W	256-bit 16GB GDDR6	576 GBPS	SUPPORTED	42.7 TFLOPS	4 x DP 1.4a, HDMI2.1	7680 x 4320 @60Hz	115W	~Q1 2028	~95,196 hrs
EN20 MXM SERIES																			
AMPERE	EMB-G692-A1		NVIDIA RTX A500	MXM 3.1 Type A	PCIe 4.0 x4	2,048	16 GEN2	64 GEN3	1,155 MHZ	1,777 MHz @ 45W	64-bit 4GB GDDR6	112 GBPS	-	7.3 TFLOPS	-	4096 x 2160 @60Hz	45W	Q1 2027	~133,785 hrs
	EMB-G665-C0		NVIDIA RTX A1000	MXM 3.1 Type A	PCIe 4.0 x4 / x8	2,048	16 GEN2	64 GEN3	1,192 MHZ	1,627 MHz @60W	128-bit 4GB GDDR6	224 GBPS	-	6.7 TFLOPS	4 x DP 1.2, 1.4, HDMI2.1	4096 x 2160 @60Hz	60W	Q1 2027	~109,809 hrs
	EMB-G665-B0		NVIDIA RTX A2000	MXM 3.1 Type A	PCIe 4.0 x4 / x8	2,560	20 GEN2	80 GEN3	1,087 MHZ	1,552 MHz @50W Max-Q	128-bit 8GB GDDR6	224 GBPS	SUPPORTED	7.9 TFLOPS	4 x DP 1.2, 1.4, HDMI2.1	4096 x 2160 @60Hz	50W Max-Q	Q1 2027	~109,809 hrs
	EMB-G662-B0		NVIDIA RTX A1000	MXM 3.1 Type B	PCIe 4.0 x4 / x8	2,048	16 GEN2	64 GEN3	1,470 MHZ	1,822 MHz @80W	128-bit 4GB GDDR6	224 GBPS	-	7.5 TFLOPS	4 x DP 1.2, 1.4, HDMI2.1	4096 x 2160 @60Hz	80W	Q1 2027	~107,992 hrs
	EMB-G662-A1		NVIDIA RTX A2000	MXM 3.1 Type B	PCIe 4.0 x4 / x8	2,560	20 GEN2	80 GEN3	1,387 MHZ	1,815 MHz @ 80W	128-bit 8GB GDDR6	224 GBPS	SUPPORTED	9.3 TFLOPS	4 x DP 1.2,1.4, HDMI2.1	4096 x 2160 @60Hz	80W	Q1 2027	~107,984 hrs
	EMB-G663-A1		NVIDIA RTX A4500	MXM 3.1 Type B	PCIe 4.0 x8 / x16	5,888	46 GEN2	184 GEN3	1,020 MHZ	1,575 MHz @125W	256-bit 16GB GDDR6	512 GBPS	SUPPORTED	18.5 TFLOPS	5 x DP 1.2, 1.4, HDMI2.1	4096 x 2160 @60Hz	125W	Q1 2027	~79,902 hrs
EN19 MXM SERIES																			
TURING	EMB-G609-A2		NVIDIA QUADRO T1000	MXM 3.1 Type A	PCIe 3.0 x8 / x16	896	-	-	1,395 MHZ	1,650 MHz @50W	128-bit 4GB GDDR6	192 GBPS	-	3.0 TFLOPS	4 x DP 1.2, 1.4b, HDMI2.0	4096 x 2160 @60Hz	50W	Q1 2028	~89,594 hrs
	EMB-G623-A0		NVIDIA QUADRO RTX™ 3000	MXM 3.1 Type B	PCIe 3.0 x8 / x16	1,920	30 GEN1	240 GEN2	945 MHZ	1,380 MHz @80W	128-bit 6GB GDDR6	336 GBPS	-	5.3 TFLOPS	5 x DP 1.2, 1.4b, HDMI2.0	4096 x 2160 @60Hz	80W	Q1 2026	~73,442 hrs
	EMB-G608-A0		NVIDIA QUADRO RTX™ 5000	MXM 3.1 Type B*	PCIe 3.0 x8 / x16	3,072	48 GEN1	384 GEN2	1,035 MHZ	1,530 MHz @110W	128-bit 16GB GDDR6	448 GBPS	-	9.5 TFLOPS	5 x DP 1.2, 1.4b, HDMI2.0	4096 x 2160 @60Hz	110W	Q1 2026	~68,260 hrs

\*Please refer to specification sheet or consult sales for mechanical requirement



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