



Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1550 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of displays supported (on-board graphics)	4	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card DirectX version	12.0	Intel® Boot Guard	✓
On-board graphics card OpenGL version	4.5	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel® Volume Management Device (VMD)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Mode-based Execute Control (MBE)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Standard Manageability (ISM)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	<b>Operational conditions</b>	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	<b>Technical details</b>	
On-board graphics card ID	0x4682/0xA782	OpenCL version	3.0
Discrete graphics card model *	Not available	Launch date	Q1'23
Number of execution units	24	<b>Logistics data</b>	
Multi-Format Codec Engines	1	Harmonized System (HS) code	8542310001
<b>Features</b>		<b>Weight &amp; dimensions</b>	
Execute Disable Bit	✓	Processor package size	45 x 37.5 mm
Idle States	✓	<b>Other features</b>	
		L2 cache	9728 KB
		Maximum internal memory	192 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



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