

Intel® Core™ Ultra 9 Processor 285K (36M

Fundamentales	
Colección de productos	Procesadores Intel® Core™ Ultra (serie 2)
Nombre en clave	Productos anteriormente Arrow Lake
Segmento vertical	Escritorio
Número de procesador	285K
Pico general TOPS (Int8)	36
Precio recomendado para el cliente	\$589.00-\$599.00
Especificaciones de la CPU	
Núcleos totales	24
# de núcleos de rendimiento	8
# de núcleos eficientes	16
Total de subprocesos	24
Frecuencia turbo máxima	5 7 GHz
Frecuencia de aumento de velocidad térmica de Intel®	5 7 GHz
Tecnología Intel® Turbo Boost Max 3.0 Frecuencia ‡	5 6 GHz
Frecuencia turbo máxima de núcleo de rendimiento	5 5 GHz
Frecuencia turbo máxima de núcleo eficiente	4 6 GHz
Frecuencia base del núcleo de rendimiento	3 7 GHz
Frecuencia base de núcleo eficiente	3 2 GHz
Caché	36 MB de caché inteligente Intel®
Caché L2 total	40 MB
Potencia base del procesador	125 W
Potencia turbo máxima	250 W
Intel® Deep Learning Boost (Intel® DL Boost) en la CPU	Sí
Marcos de software de IA compatibles con CPU	OpenVINO™ WindowsML DirectML
Litografía con CPU	TSMC N3B
Información complementaria	
Estado de comercialización	Lanzado
Launch Date	Q4'24
Embedded Options Available	No
Use Conditions	PC/Client/Tablet Workstation
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type)	192 GB
Memory Types	Up to DDR5 6400 MT/s
Maximum Memory Speed	6400 MHz
Max # of Memory Channels	2
ECC Memory Supported ‡	Yes
GPU Specifications	
GPU Name‡	Intel® Graphics

Graphics Base Frequency	300 MHz
Graphics Max Dynamic Frequency	2 GHz
GPU Peak TOPS (Int8)	8
Graphics Output	DP2.1 UHBR20 HDMI2.1 FRL 12GHz eDP 1.4
Xe-cores	4
Max Resolution (HDMI)‡	4K @ 60Hz (HDMI 2.1 TMDS) 8K @ 60Hz (HDMI 2.1 FRL)
Max Resolution (DP)‡	8K @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)‡	4K @ 60Hz
DirectX* Support	12
OpenGL* Support	4.5
OpenCL* Support	3
Intel® Quick Sync Video	Yes
# of Displays Supported ‡	4
Device ID	0x7D67
Intel® Deep Learning Boost (Intel® DL Boost) on GPU	Yes
NPU Specifications	
NPU Name‡	Intel® AI Boost
NPU Peak TOPS (Int8)	13
Sparsity Support	Yes
Windows Studio Effects Support	Yes
AI Software Frameworks Supported by NPU	OpenVINO™ WindowsML DirectML TensorFlow Lite
Expansion Options	
Direct Media Interface (DMI) Revision	4
Max # of DMI Lanes	8
Intel® Thunderbolt™ 4	Yes
Scalability	1S Only
PCI Express Revision	5.0 and 4.0
PCI Express Configurations ‡	Up to 1x16+2x4 2x8+2x4 1x8+4x4
Max # of PCI Express Lanes	24
Package Specifications	
Sockets Supported	FCLGA1851
Thermal Solution Specification	PCG 2020A
Max Operating Temperature	105 °C
Advanced Technologies	
Intel® Volume Management Device (VMD)	Yes
Intel® Gaussian & Neural Accelerator	3.5
Intel® Thread Director	Yes
Intel® Speed Shift Technology	Yes
Intel® Thermal Velocity Boost	Yes
Intel® Turbo Boost Max Technology 3.0 ‡	Yes
Intel® Turbo Boost Technology ‡	2
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.1 Intel® SSE4.2 Intel® AVX

Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Security & Reliability	
Intel vPro® Eligibility ‡	Intel vPro® Enterprise Intel vPro® Platfo
Intel® Threat Detection Technology (TDT)	Yes
Intel® Active Management Technology (AMT) ‡	Yes
Intel® Standard Manageability (ISM) ‡	Yes
Intel® Remote Platform Erase (RPE) ‡	Yes
Intel® One-Click Recovery ‡	Yes
Intel® Hardware Shield Eligibility ‡	Yes
Intel® Control-Flow Enforcement Technology	Yes
Intel® Total Memory Encryption - Multi Key	Yes
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Intel® OS Guard	Yes
Intel® Boot Guard	Yes
Mode-based Execute Control (MBEC)	Yes
Intel® Stable IT Platform Program (SIPP)	Yes
Intel® Virtualization Technology with Redirect Protection (VT-r)	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes

I Cache- up to 5.70 GHz)

ONNX RT | WebNN

HDMI2.1 FRL)

ONNX RT | WebNN

