ComX Computers
Product Specification Sheet

CP-iR235To

Intel aRrow lake Ultra 5 235T P-Core: 2.2Ghz / E-Core: 1.6Ghz LGA 1851 Processor with no fan

Product Overview

Intel aRrow lake LGA 1851 Ultra 5 235T - 6x Performance-cores + 8x Energy-efficient-cores, 14(6+8) threads, P-Core: 2.2Ghz / 5.0Ghz boost, E-Core: 1.6Ghz / 4.4Ghz boost, 26mb L2 cache + 24mb L3 cache, 3nm, built-in dual channel DDR5-6400 memory controller, built-in Arc Xe-2 graphics (32EU, 300/1900mhz), 35w - tray cpu with no fan



Specifications

Specifications:

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Specifications	
Product Code	CP-iR235To
Essentials	
Product Collection	Intel Core Ultra Processors (Series 2)
Code Name	Products formerly Arrow Lake
Vertical Segment	Desktop
Processor Number	235T
Overall Peak TOPS (Int8)	27
CPU Specifications	
Total Cores	14
# of Performance-cores	6
# of Efficient-cores	8
Total Threads	14
Max Turbo Frequency	5 GHz

Performance-core Max Turbo Frequency	5 GHz
Efficient-core Max Turbo Frequency	4.4 GHz
Performance-core Base Frequency	2.2 GHz
Efficient-core Base Frequency	1.6 GHz
Cache	24 MB Intel Smart Cache
Total L2 Cache	26 MB
Processor Base Power	35 W
Maximum Turbo Power	114 W
Intel Deep Learning Boost (Intel DL Boost) on CPU	Yes
AI Software Frameworks Supported by CPU	OpenVINO, WindowsML, DirectML, ONNX RT, WebNN
CPU Lithography	TSMC N3B
Supplemental Information	
Embedded Options Available	No
Use Conditions	PC/Client/Tablet, Workstation
Memory Specifications	
Max Memory Size (dependent on memory type)	256 GB
Memory Types	Up to DDR5 6400 MT/s
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)	6
Graphics Output	DP2.1 UHBR20, HDM2.1 FRL 12GHz, eDP1.4b
Xe-cores	3
Max Resolution (HDMI)	4K @ 60Hz (HDMI 2.1 TMDS) 8K @ 60Hz (HDMI2.1 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, ONNX RT, WebNN
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 2022D
Max Operating Temperature	105 degreesC
Advanced Technologies	
Intel Gaussian & Neural Accelerator	3.5
Intel Thread Director	Yes
Intel Speed Shift Technology	Yes
Intel Turbo Boost Technology	2
Intel 64	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel SSE4.1, Intel SSE4.2, Intel AVX2
Idle States	Yes
Enhanced Intel SpeedStep Technology	Yes
Thermal Monitoring Technologies	Yes
Intel Volume Management Device (VMD)	Yes

Security & Reliability	
Intel vPro Eligibility	Intel vPro Enterprise
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 Control-Flow Enforcement Technology	Yes
Intel Total Memory Encryption - Multi Key	Yes
Intel AES New Instructions	Yes
Intel 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-rp)	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

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/CP-iR235To-Intel-aRrow-lake-Ultra-5-235T-P-Core-2-2Ghz-E-Core-1-6Ghz-LGA-1851-Processor-p-324076.php

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