# Intel® Xeon® W-3400 & Intel® Xeon® W-2400 Platforms for Workstations!

(Codename Sapphire Rapids)

Distributor Webinar | Q12023



# Agenda

- Key Dates
- New & Key Features
- New Branding
- Box, Tray, and Carrier Information
- Sales Enablement
- Q&A

# Key Milestones

Product / Platform Name	Product Introduction Embargo Date	Sales Embargo Date
4th Gen Intel® Xeon® Scalable (Sapphire Rapids-SP) Processors: Expert 2-Socket Workstation		05 Mar – 24 Mar 2023
Intel® Xeon® W-3400 (Sapphire Rapids-112L) Processors: Expert 1-Socket Workstation with Intel® W790 Chipset	15 Feb 2023, 9am PT	09 Apr – 28 Apr 2023
Intel® Xeon® W-2400 (Sapphire Rapids-64L) Processors: Mainstream Workstation with Intel® W790 Chipset		05 Mar – 24 Mar 2023

## Intel® Xeon® W-3400 and Xeon® W-2400 processors

(Sapphire Rapids-112L and Sapphire Rapids-64L)



Intel® Xeon® W-3400 processors



Intel® Xeon® W-2400 processors

#### THE ULTIMATE WORKSTATION PLATFORM for professionals

Built for professional creators, the Intel® Xeon® W-3400 and Xeon® W-2400 platform delivers a giant leap in performance and expanded platform capabilities for Media and Entertainment, Engineering, and Data Science professionals in desk-side tower form factors

## Intel® Xeon® W-3400 Processors

#### New and Featured Technologies

Architecture Improvements			
NEW	Intel® 7 Process Technology		
NEW	Processor core architecture, up to 46% higher performance over previous generation <sup>1</sup>		
NEW	Up to 56 (56 P-core + 0 E-core) processor cores in a single socket		
INCREASED	L2 Cache and L3 Shared Intel® Smart Cache		
NEW	3 <sup>rd</sup> Gen Intel <sup>®</sup> Deep Learning Boost		

NEW	Eight-Channel DDR5 ECC RDIMM (up to 4800MT/s) for up to 4TB of memory support <sup>2</sup>
NEW	CPU PCIe* 5.0 up to 112 lanes
NEW	X8 DMI 4.0 lanes to Platform Controller Hub (PCH)
NEW	PCH PCIe* 4.0 up to 16 lanes
NEW	Integrated Intel® Wi-Fi 6E support

Featured Tech
CPU PCIe* 4.0, up to x16 lanes from PCH (Intel® W790)
Intel® Turbo Boost Max Technology 3.0
ECC Memory Support
Core frequency tuning <sup>3</sup>
Intel vPro® Enterprise technologies⁴

\*Other names and brands may be claimed as the property of others.

- 1. Configuration: Estimated SPECrate 2017\_int\_base based on Intel internal analysis for Sapphire Rapids 28c vs Cascade Lake 28c and is subject to confirmation based on testing of final product.
- 2. Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Maximum memory capacity is achievable with 2DPC configurations.

**Platform Improvements** 

- 3. Only on Select SKUs, Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components.
- 4. For a full list of Intel vPro platform technologies by product line visit https://www.intel.com/content/www/us/en/products/details/processors/vpro.html

## Intel® Xeon® W-2400 Processors

#### New and Featured Technologies

Architecture Improvements			
NEW	Intel® 7 Process Technology		
NEW	Processor core architecture, up to 46% higher performance over previous generation <sup>1</sup>		
NEW	Up to 24 (24 P-core + 0 E-core) processor cores in a single socket		
INCREASED	L2 Cache and L3 Shared Intel® Smart Cache		
NEW	3 <sup>rd</sup> Gen Intel® Deep Learning Boost		

NEW	Quad-Channel DDR5 ECC RDIMM (up to 4800MT/s) for up to 2TB of memory support <sup>2</sup>			
NEW	CPU PCIe* 5.0 up to 64 lanes			
NEW	X8 DMI 4.0 lanes to Platform Controller Hub (PCH)			
NEW	PCH PCIe* 4.0 up to 16 lanes			
NEW	Integrated Intel® Wi-Fi 6E support			

Featured Tech	
CPU PCIe* 4.0, up to x16 la from PCH (Intel® W790)	nes
Intel® Turbo Boost Max Technology 3.0	
ECC Memory Support	
Core frequency tuning <sup>3</sup>	
Intel vPro® Enterprise technologies <sup>4</sup>	

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# Intel® Xeon® w9, w7, w5, w3 – Brand Levels

Introducing Intel® Xeon® brand levels for workstation, to distinguish between features and core counts

	Brand Level	Intel® Xeon® W-2400 Processors Mainstream WS - 64L CPU PCIe* Lanes	Intel® Xeon® W-3400 Processors Expert WS — 112L CPU PCIe* Lanes
intel XEON w9	Intel ® Xeon® w9 processors	N/A	Up to 56 cores
intel XEON w7	Intel® Xeon® w7 processors	Up to 24 cores	Up to 28 cores
intel XEON w5	Intel® Xeon® w5 processors	Up to 16 cores  Unlocked <sup>1</sup> Up to DDR5 RDIMM-4800 MT/s	mory
intel XEON w3	Intel® Xeon® w3 processors	Up to 8 cores Up to DDR5 RDIMM- 4400 MT/s, Four-Channel Memory	N/A

<sup>\*</sup>Other names and brands may be claimed as the property of others. 1. On select SKUs.

### Boxed Processor Information

The following unlocked SKUs will be boxed:

#### Intel® Xeon® W-3400 Processors:

- Intel® Xeon® w9-3475X Processor
- Intel® Xeon® w7-3465X Processor
- Intel® Xeon® w5-3435X Processor

#### Intel® Xeon® W-2400 Processors:

- Intel® Xeon® w7-2495X Processor
- Intel® Xeon® w7-2475X Processor
- Intel® Xeon® w5-2465X Processor
- Intel® Xeon® w5-2455X Processor



NEW: 3-year warranty for tray and box!

## **CPU Carrier Information**

Intel® Xeon® W-3400 and Xeon® W-2400 Processors

#### What is a Carrier?

Carriers are required to properly align and install the CPU onto the motherboard. Intel Xeon W-3400 and Xeon W-2400 processor families each have their own required carriers. (see table)

#### **Carrier Features**

- Visual Indicators: Carriers and CPUs are marked with carrier codes (E1A, E1B) to indicate which should be used.
- Keying Features: Carriers are keyed, mitigating the mixing of carriers with CPU or installing in the wrong orientation.
- Integrated Shims: E1B carriers for Intel Xeon W-2400 processors have integrated shims that ensure proper CPU to socket loading is provided by the bolster plate

Carrier Types			
CPU	Intel Xeon W-3400 Processors	Intel Xeon W-2400 Processors	
Carrier Code	E1A	E1B	
Shim	No	Yes	
Integrated TIM Break Lever	Yes	Yes	



# Information on Obtaining Carriers

#### Intel® Xeon® W-3400 and Xeon® W-2400 Processors

Boxed processors: The correct carrier will be included in the box.

Tray processors: Please confirm with your motherboard or thermal vendor if the correct carrier is included with their solution. If not, carriers can be purchased directly from one of the suppliers listed below.

Suppliers	Point of Contact/ Account Rep	Part Number (E1A)	Part Number (E1B)	Where to Buy
Foxconn Interconnect Technology*	Eric Ling ; eric.ling@fit-foxconn.com  Cell: 971-506-6441  Foxconn Interconnect Technology,  Oregon	WNMEC00-0NNK1-EH	WNMEC00-0NNK2-EH	<u>AVNET</u> <u>TIME SPEED ELECTRONIC</u>
LOTES co Ltd.*	Cathy Yang ; cathy@lotes.com.cn  Cell: 86-136-40250028  Marketing & Sales Dept. Lotes Guangzhou Co., Ltd.	AZIF0204-P006C01	AZIF0204-P003C01	Contact Cathy Yang  LOTES Website
TE Connectivity*	Jaren May ; jaren.may@te.com	1-2351052-5	1-2351052-2	TE Connectivity Website

## Resources to Help You Sell

### Content Coming Soon

(Target delivery at launch on Feb 15<sup>th</sup>)

- Platform Brief
- Selling Guide
- Tech Bytes Video Series (4)
- Quick Reference Guide
- How to Sell Guide
- Sales Cards
- Disti/Retailer Set-up Guide (Available)

NOTE: To-customer content will be translated into the following languages:

- EMEA: PL, FR, DE, RU
- APJ: Trad. CH, Simp. CH, KO, JP, VT, TH, ID
- LA: ES, PT







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## Embargo Breach Reminder

This is a gentle reminder that all customers must adhere to the disclosure dates and guidelines published in the Intel Launch Update (ILU). News/Ad/Reviews/Sales Embargos per the published ILU. CNDA and MOA agreements prohibit the release of Intel Confidential products, specifications, pricing and other information without expressed consent. related to pre-launch product, to any customer prior to launch date.

Intel takes any violations very seriously as they negatively impact all customers. We have also established a new embargo breach response process to help provide a consistent methodology to follow-up with customers that break embargo.

Please work with your customers to do their best to properly secure pre-launch information and product inventory until the ILU dates/times have passed and all restrictions are cleared.

Thank you for your support to ensure another successful product launch together!

## Notices and Disclaimers

Performance varies by use, configuration and other factors. Learn more at www.Intel.com/PerformanceIndex.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

All versions of the Intel vPro® platform require an eligible Intel® Core™ processor, a supported operating system, Intel LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance and stability that define the platform. See www.intel.com/Performance-vPro for details.

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