THE ULTIMATE WORKSTATIONS
FUELED BY INTEL® XEON® PROCESSORS

Data Center Product Marketing
Intel Data Center Group

Content Revision Date: 11 July 2018
CELEBRATE WONDERFUL 40 UP TO MZH
50thanniversary.intel.com

1985

UP TO 40 MHz
UP TO 1 CORE

1998

CELEBRATING 20 YEARS OF INTEL® XEON® PROCESSORS

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THE ULTIMATE WORKSTATIONS

INTEL® XEON® SCALABLE PROCESSOR
BREAKTHROUGH PERFORMANCE FOR EXPERT WORKSTATIONS

INTEL® XEON® W PROCESSOR
PERFORMANCE OPTIMIZED FOR MAINSTREAM WORKSTATIONS

NEW INTEL® XEON® E PROCESSOR
ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS
FAST FORWARD TO YOUR <NEXT> CREATION

DELL* PRECISION 7910 WORKSTATION
HP* Z8 G4 WORKSTATION
LENOVO* THINKSTATION P920 WORKSTATION

BREAKTHROUGH PERFORMANCE FOR EXPERT WORKSTATIONS
THE ULTIMATE WORKSTATIONS

INTEL® XEON® SCALABLE PROCESSORS

UP TO 1.55X FASTER
vs. 2016 Dual-Socket Intel® Xeon® E5-2600 v4 Processors

INTEL® XEON® W PROCESSORS

UP TO 1.45X FASTER
vs. 2016 Intel® Xeon® E5-1600 v4 Processor

INTEL® XEON® E PROCESSORS

UP TO 1.36X FASTER
vs. 2017 Intel® Xeon® E3-1200 v6 Processor

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WORKSTATION LANDSCAPE

EXPERT
Breakthrough performance for real-time design, modeling, content creation and insights

MAINSTREAM
Performance optimized for increasing workload demands

ENTRY
Essential performance and visuals

MOBILE
Creativity and collaboration from anywhere

Intel® XEON® E-2100M PROCESSOR
Intel® XEON® E-2100 PROCESSOR
Intel® XEON® W-2100 PROCESSOR
Intel® XEON® SCALABLE PROCESSOR
WORKSTATION OPPORTUNITY BY VERTICAL

ENGINEERING  ENTERTAINMENT  FINANCE  ENERGY  EDUCATION  HEALTHCARE
**ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UP TO 1.73X</strong> PERFORMANCE IMPROVEMENT</td>
<td>4-YEAR REFRESH⁴</td>
</tr>
<tr>
<td>UP TO 1.36X PERFORMANCE IMPROVEMENT</td>
<td>GEN-ON-GEN³</td>
</tr>
<tr>
<td><strong>UP TO 4.7 GHz</strong> TURBO</td>
<td>WITH INTEL® BOOST TECHNOLOGY 2.0</td>
</tr>
<tr>
<td><strong>UP TO 64 GB</strong> DDR4</td>
<td>2666 MHZ</td>
</tr>
<tr>
<td><strong>UP TO 6 CORES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>UP TO 12 THREADS</strong></td>
<td></td>
</tr>
</tbody>
</table>

**ESSENTIAL PERFORMANCE AND VISUALS WITH EXPANDABILITY, RELIABILITY, SECURITY**

New Intel® Xeon® E Processor

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ENTRY WORKSTATION PERFORMANCE

**WHAT'S NEW IN ENTRY WORKSTATION PERFORMANCE?**

- **1.45X FASTER 3D MODELING & ANIMATION APPLICATIONS**
  - vs. 2017 Intel® Xeon® E3-1200 v6 Processor

- **1.36X COMPUTE INTENSIVE APPLICATIONS**
  - vs. 2017 Intel® Xeon® E3-1200 v6 Processor

- **1.45X FASTER FINANCIAL SERVICES APPLICATIONS**
  - vs. 2017 Intel® Xeon® E3-1200 v6 Processor

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The Best VR Experiences Run on Intel® Xeon® Processors

- Today’s professional quality virtual reality experiences offer an entirely new level of immersion, interactivity and creativity.
- Accelerate your creation and take control in an expansive virtual world with incredible visuals.
- Intel® Xeon® Scalable processors, Intel® Xeon® W processors and Intel® Xeon® E processors are professional quality VR ready and exceed minimum processor specs for Oculus* and HTC*.
WORKSTATION MEGATASKING PERFORMANCE

TURNING SIX 4K VIDEO CLIPS INTO ONE 4K VR VIDEO

2017 INTEL® XEON® E3-1275 v6 PROCESSOR
DECODE + STITCH + RENDER + ENCODE 4K VIDEO
6 MINUTES, 8 SECONDS

2018 INTEL® XEON® E-2176G PROCESSOR
DECODE + STITCH + RENDER + ENCODE 4K VIDEO
4 MINUTES, 39 SECONDS

PERFORMING MULTIPLE CPU INTENSIVE WORKSTATION TASKS

UP TO 24% TIME SAVINGS
vs. 2017 Intel® Xeon® E3-1275 v6 Processor

New Intel® Xeon® E Processor

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THE ULTIMATE WORKSTATIONS

INTEL® XEON® SCALABLE PROCESSOR
BREAKTHROUGH PERFORMANCE FOR EXPERT WORKSTATIONS

INTEL® XEON® W PROCESSOR
PERFORMANCE OPTIMIZED FOR MAINSTREAM WORKSTATIONS

INTEL® XEON® E PROCESSOR
ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS

INTEL® XEON® PROCESSOR-BASED WORKSTATIONS: PERFORMANCE. PROFESSIONAL- GRADE. BUILT FOR TODAY’S PROS.
NEW INTEL® XEON® E PROCESSOR

Improvements in processor speed, enhanced memory capabilities, advanced hardware-enhanced security and reliability features available with support for 4K UHD Intel® graphics technology.

- Up to 6 cores, 12 threads
- Up to 64GB DDR4 ECC 2666 MHz memory
- Intel® Hyper-Threading Technology (Intel® HT Technology)
- Intel® Turbo Boost Technology 2.0
- Intel® Advanced Vector Extensions 2.0
- Support for LGA 1151 socket
- Up to 40 PCI Express 3.0 lanes
- Support for USB* 3.1 Gen 2 (Up to 10 Gbps)
- Support for Thunderbolt™ 3.0 technology
- Intel® vPro™ Technology
- Enhanced Intel® Software Guard Extensions (Intel® SGX)
- Available with Intel® UHD Graphics P630
- Support for Intel® Optane™ memory
- Support for 1 Gigabit Intel® Ethernet and Intel® Wireless-AC

Not a comprehensive of all features and capabilities.
### NEW INTEL® XEON® E PROCESSES

**ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS**

#### Processor Information
- **Up to Two Channels DDR4 2666 with ECC**
- **Up to 16 Lanes PCI Express® 3.0**
- **Intel® UHD Graphics P630**
- **PCI Express® 3.0**
- **USB* 3.1 Gen 2**
- **SATA Gen 3**
- **Support for Intel® Ethernet and Intel® Wireless AC**

#### Supported Features
- **Intel® vPro™ Technology**
- **Intel® Optane™ memory support**
- **Intel® Rapid Storage Technology PCIe® 3.0**
- **Thunderbolt™ 3.0 support**

#### Technical Specifications
- **Processor Manufacturing Process**: Intel’s 14nm process technology
- **Maximum Core Count Supported**: 6
- **Maximum Base Frequency Supported**: 3.8 GHz
- **Maximum Intel® Turbo Boost Technology 2.0 Frequency Supported**: 4.7 GHz
- **Processor Cache Memory Support**: Up to 12MB Intel® Smart Cache
- **Processor Performance Support**: Intel® Turbo Boost 2.0 Technology, Intel® Hyper-Threading Technology (Intel® HT)
- **Processor Graphics Support**: Available with integrated Intel® UHD Graphics P630 (Maximum Video Memory up to 64GB), supporting up to 3 display outputs
- **Maximum Number of Processor Sockets Supported**: One Socket
- **Thermal Design Point (TDP)**: Up to 95 Watts
- **Socket Type**: LGA-1151 Socket
- **System Memory Support**: 2 channels of DDR4 ECC 2666 MHz 2 DPC
- **Maximum System Memory Supported**: Up to 64GB
- **Supported Chipset**: Intel® C246 Series Workstation Chipset
- **I/O**: PCI Express® 3.0 – Up to 40 lanes (CPU + Chipset), USB® 3.1 – Up to 6 ports, USB® 3.0 – Up to 10 ports, SATA 3.0 – Up to 8 ports, DMI – Up to 4 lanes, Gen 3
- **Intel® Manageability Engine (Intel® ME)**: Intel® ME v12 with Intel® Active Management Technology (Intel® AMT) and Intel® vPro™ Technology
- **Intel® Rapid Storage Technology**: Intel® Rapid Storage Technology PCIe® 3.0

Processor, chipset and diagram provided for illustration purposes only. Diagram and table are not a comprehensive list of all features and capabilities.

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# NEW INTEL® XEON® E PROCESSORS

<table>
<thead>
<tr>
<th>Processor Number¹</th>
<th>Base Clock Speed (GHz)</th>
<th>Intel® Turbo Boost Technology 2.0 Frequency (GHz)</th>
<th>Cores/Threads</th>
<th>Intel® UHD Graphics 630</th>
<th>Cache (MB)</th>
<th>PCI Express 3.0 Lanes (CPU + Chipset)</th>
<th>Memory Support</th>
<th>Thermal Design Power (TDP)</th>
<th>Socket (LGA)</th>
<th>Recommended Customer Pricing ($ US Dollars)</th>
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<tr>
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<td>3.8</td>
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<td>12MB SmartCache</td>
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<td>Two channels DDR4-2666</td>
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<td>1151</td>
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No computer system can be absolutely secure.
PERFORMANCE BENCHMARK DISCLOSURES [2/3]


3: **Up to 1.36X faster** vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® E-2186G Processor, Platform: Moss Beach, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz ) ,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic),Benchmark: SPECRate2017_int_base (Estimated), Compiler: ICC 18.0.2,BIOS: CNLSE2R1.R00.X119.B54.1803131307, 03/13/2018 (uCode:0x84), Storage: SSD S3710 Series 800GB, Score: 40.9 compared to 1x Intel® Xeon® Processor E3-1285 v6, Platform: S1200SP, 4 x 8GB DDR4 2400MHz,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic), Benchmark: SPECRate*2017_int_base (Estimated), Compiler: ICC 18.0.2,BIOS: S1200SP.86B.03.01.0129.012520180838 (uCode:0x84), Storage: SSD S3710 Series 800GB, Score: 29.9.

4: **Up to 1.73X performance improvement** vs. 4-year old entry workstation. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® E-2186G Processor, Platform: Moss Beach, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz ) ,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic), Benchmark: SPECRate*2017_fp_base (Estimated), Compiler: ICC 18.0.128,BIOS: CNLSE2R1.R00.X119.B54.1803131307, 03/13/2018 (uCode:0x84), Storage: SSD S3710 Series 800GB, Score: 35.3 compared to 1x Intel® Xeon® E3-1286v3 Processor Platform: S1200RP, 4 x 8GB DDR4 1600 (32GB 1600MHz ) ,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic), Benchmark: SPECRate*2017_fp_base (Estimated), Compiler: ICC 18.0.0.128,BIOS: S1200RP.86B.03.04.0006.030520181328, 03/05/2018 (uCode:0x24), Storage: SSD S3710 Series 800GB, Score: 20.3.
PERFORMANCE BENCHMARK DISCLOSURES [3/3]

5: Up to 1.45X faster financial services applications vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x-Intel® Xeon® E-2186G Processor, Platform: RVP, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz), OS: Windows 10 Pro (RS3 1709 with Window updates KB4053577,KB4058043,KB4088785,KB4088776 ), Benchmark: Estimated Financial Services (Geomean) for SPECwpc, Compiler: ver. 2.1, BIOS: CNLSPFW1.R00.X118.B23.1803070743, 3/7/2018 (uCode 0x02), Storage: SSD 535 Series 480GB, Score: 2.15 (M&E), 1.91 (Product Dev), 1.84 (Life Sciences), 5.39 (Financial Services), 1.93 (Energy), and 1.17 (General Operations) compared to 1x Intel® Xeon® Processor E3-1285 v6, Platform: S1200SP, 4 x 8GB DDR4 2400MHz, OS: Windows 10 Pro (OS version 10.0.16299 N/A Build 16299 with Window updates KB4053577, KB4090914, KB4088785, KB4088776 ), Benchmark: Estimated Financial Services (Geomean) for SPECwpc, Compiler: ver. 2.1, BIOS: S1200SP.86B.03.01.1029.012520180838, 1/25/2018, Storage: SSD 535 Series 480GB, Score: 1.83 (M&E), 1.58 (Product Dev), 1.59 (Life Sciences), 3.7 (Financial Services), 1.56 (Energy), and 1.16 (General Operations).

6: Up to 1.45X faster 3D modeling and animation applications vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® E-2186G Processor, Platform: RVP, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz), OS: Windows 10 Pro (RS3 1709 with Window updates KB4053577,KB4058043,KB4088785,KB4088776 ), Benchmark: Cinebench (Estimated), BIOS: CNLSPFW1.R00.X118.B23.1803070743, 3/7/2018 (uCode 0x02), Storage: SSD 535 Series 480GB, Score: 1396 (CPU(cb)) compared to 1x Intel® Xeon® Processor E3-1285 v6, Platform: S1200SP, 4 x 8GB DDR4 2400MHz, OS: Windows 10 Pro (OS version 10.0.16299 N/A Build 16299 with Window updates KB4053577, KB4090914, KB4088785, KB4088776 ), Benchmark: Cinebench (Estimated), BIOS: S1200SP.86B.03.01.1029.012520180838, 1/25/2018, Storage: SSD 535 Series 480GB, Score: 957 (CPU(cb)).

7: Up to 24 percent time savings vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Based on internal testing at Intel using 6 4k videos each 50 second clip, stitched and rendered on Autopano Video Pro 2.6.2 and then linear editing on Adobe Premiere Pro CC(Version 12.0, Build 224) and Adobe Media Encoder CC(Version 12.0, Build 202) on a system running Xeon E3: E3-1275v6(4 cores/8 thread, 3.8GHz, 73W) with Nvidia P2000, Intel 535 series 480GB SSD, 32GB (4 x 8GB DDR4 2400MT/s) and a Xeon-E: E-2176G(6 cores/12 threads, 3.7GHz, 80W), Nvidia P2000, Intel 535 series 480GB SSD, 32GB (4 x 8GB DDR4 2666 MT/s).
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