



POWER AND FLEXIBILITY FOR THE MODERN WORKSTATION PROFESSIONAL

THE INTEL® W480 CHIPSET AND INTEL® XEON® W-1200 PROCESSORS

**Create, develop
and deploy with
Intel® Xeon® W-1200
Processors and the
Intel® W480 chipset.**

POWER USERS PREFER INTEL® XEON® WORKSTATIONS

The Intel W480 chipset and Intel® Xeon® W-1200 Processors is built for compute, visual and data-intensive workloads. Achieve advanced performance with features such as Intel® Turbo Boost Max Technology 3.0¹ and Intel® Hyper-Threading Technology¹ to give you an extra level of boost. With Intel Xeon platforms, your workstation is equipped to have an extra level of reliability with features like access to high end storage, and form factor designs that address the higher thermal and electrical demands.

QUALITY/INTEGRITY OF DATA

All data processed on a computer spends time in system memory. To help minimize errors and deliver a stable engineering & design platform, enable Error Correcting Code (ECC) memory with the Intel W480 chipset and Intel® Xeon® W-1200 Processors. Ensure your system has high reliability with the Intel W480 chipset and Intel® Xeon® W-1200 Processors.

**POWER AND
BETTER PROTECT
YOUR BUSINESS'S
POTENTIAL**



SECURITY AND MANAGEABILITY AT YOUR FINGERTIPS

Enable your business to do more with the Intel W480 chipset and Intel® Xeon® W-1200 Processors. The Intel vPro platform provides businesses with the tools to efficiently manage and help secure computing endpoints. Intel® Hardware Shield provides an evolving set of technologies to help reduce each platform's attack surface, while reporting the current security configuration to the operating system. Modern Manageability with Intel® Active Management Technology (Intel® AMT) and Intel® Endpoint Management Assistant (Intel® EMA) can remotely manage 1000s of endpoints through the cloud inside or outside the corporate firewall. Power and help protect your business's potential with the Intel W480 chipset and Intel® Xeon® W-1200 Processors.^{4,5}

FAST PC RESPONSIVENESS AT YOUR COMMAND

The Intel W480 chipset and Intel® Xeon® W-1200 Processors enable support for Intel® Optane™ memory which speeds up access to your favorite programs and files.² With the fast application response times enabled by Intel Optane memory, you can quickly access your critical files.

UNLEASH YOUR NETWORK PERFORMANCE

The Intel W480 chipset integrates an Intel® Wi-Fi 6 AX201 with Gig+ CNVi solution which offers best-in-class wireless standards for fast, flexible and safe connectivity. Intel® Wi-Fi 6 (Gig+) enables gigabit speeds that are nearly 3X faster than standard Wi-Fi (802.11ac).³ Experience improved speed and responsiveness that enables a more reliable connection even in environments with many connected devices.



**EXPERIENCE
MORE
IMMERSIVE
VISUALS**

IMMERSIVE VISUALS WITH INTEL® UHD GRAPHICS

Intel UHD P630 Graphics on Intel® Xeon® W-1200 Processors provide eye-popping 4K UHD resolutions.¹ Experience more immersive visuals with High Dynamic Range (HDR) and Rec. 2020 (Wide Color Gamut) support. Playback your favorite videos with color precision via native true 10-bit graphics output. Watch the latest 4K UHD premium content on your PC from leading online providers.¹ With up to three independent, DisplayPort* and/or HDMI* displays supported with the Intel W480 chipset, you can enable great productivity on your workstation.

BOOST YOUR MEDIA TRANSFER SPEEDS

MASSIVE STORAGE CAPABILITIES

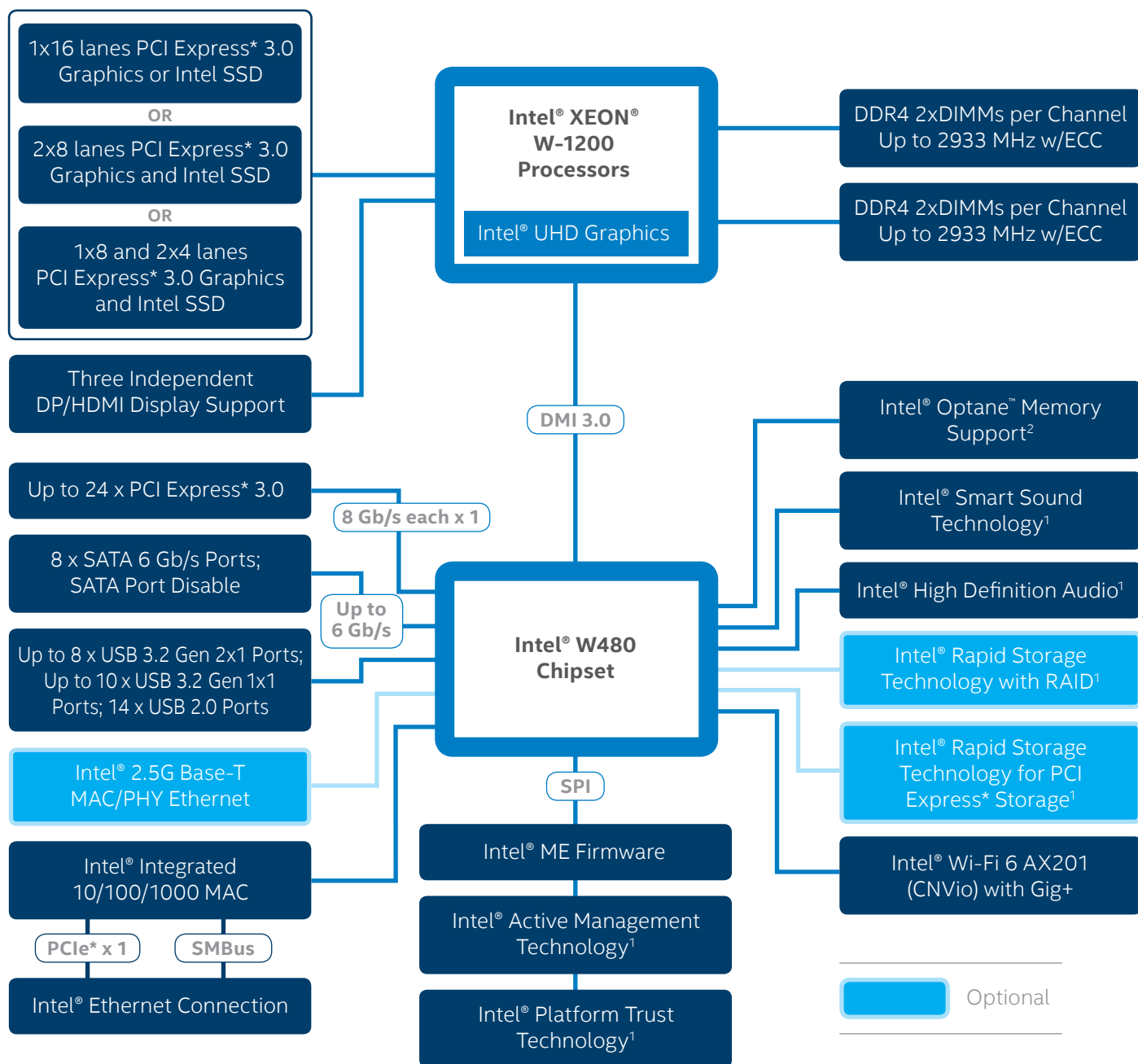
Expand your storage capabilities with the Intel W480 chipset and Intel® Xeon® W-1200 Processors. Boost your media transfer speeds with the integrated USB 3.2 Gen 2x1 support of the Intel W480 chipset. Create fast storage volumes and back-up your media and critical information via RAID support with Intel processor and chipset-connected PCI Express* SSDs¹. Expand your storage with up to 8 SATA 6 Gb/s ports. Enable blazingly fast data transfers to your favorite devices with PCI Express* 3.0.



INTEL® W480 CHIPSET FEATURES AT A GLANCE

| FEATURES | BENEFITS |
|---|--|
| Support for Intel® Xeon® W-1200 Processors | Supports Intel® Xeon® W-1200 Processors |
| Modern Manageability with Intel® AMT and Intel® EMA ¹ | Allows hardware-based cloud manageability for your entire PC fleet. Lower Total Cost of Ownership with remote management of devices. |
| Intel® Hardware Shield | Provides built-in platform protection features that helps prevent malware attacks – now with advanced threat detection and extended protection beyond system memory to help protect critical resources. |
| Intel® Transparent Supply Chain | Enables the traceability and authenticity of PC components. |
| Intel® Platform Trust Technology ¹ | Integrated chipset hardware and firmware solution that delivers a trusted element of the platform execution to provide enhanced security by verifying the boot portion of the boot sequence which helps protect against viruses and malicious SW attacks . Federal Information Protection Standard 140-2 L1 certified. |
| Intel® Trusted Device Setup | Enables more secure drop-ship provisioning capability (direct ship from OEM to end-user). |
| Intel® Rapid Storage Technology ¹ | With additional SSDs and hard drives added, helps provide quick access to digital photo, video, and data files, and data protection against a hard disk drive failure with RAID 0, 1, 5, and 10. |
| Intel® Rapid Storage Technology for PCI Express* Storage ¹ | Enables Intel® Rapid Storage Technology features such as RAID 0, 1, and 5 with Intel PCI Express*-based NVMe SSDs connected via Intel processors and/or the Intel W480 chipset. |
| Intel® Optane™ Memory Support ² | Provides performance improvements as well as fast app response times for system acceleration and responsiveness when paired with an Intel Optane memory module. |
| Intel® Wi-Fi 6 Support | Integrated Intel® Wi-Fi 6 AX201(Gig+) CNVi solution or Intel® Wi-Fi 6 AX200(Gig+) solution allowing you to connect up to Gigabit Wi-Fi speeds ³ . |
| Intel® Smart Sound Technology ¹ | Integrated digital signal processor (DSP) for audio offload and audio/voice features. |
| Intel® High Definition Audio ¹ | Integrated audio support enables premium digital surround sound and delivers advanced features such as multiple audio streams and jack re-tasking. |
| USB 3.2 Gen 2x1 | Integrated USB 3.2 Gen 2x1 support provides data transfer performance with a design data rate of up to 10 Gb/s. |
| USB 3.2 Gen 1x1 | Integrated USB 3.2 Gen 1x1 support provides data transfer performance with a design data rate of up to 5 Gb/s. |
| USB 2.0 | High-Speed USB 2.0 support with a design data rate of up to 480 Mb/s. |
| USB Port Disable | Enables individual USB ports to be enabled or disabled as needed. This feature helps provide added protection of data by preventing malicious removal or insertion of data through USB ports. |
| Serial ATA (SATA) 6 Gb/s | High-speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access. |
| SATA Port Disable | Enables individual SATA ports to be enabled or disabled as needed. This feature helps provide added protection of data by preventing malicious removal or insertion of data through SATA ports. |
| PCI Express 3.0 Interface | Offers up to 8 GT/s for fast access to peripheral devices and networking with up to 24 PCI Express 3.0 lanes, configurable as x1, x2, and x4 depending on desktop motherboard designs. |
| Intel® Xeon® W-1200 Processors PCI Express 3.0 Interface | Intel® W480 chipset-based platforms enable the processor PCI Express 3.0 lanes to be configurable as 1x16, 2x8, or 1x8 and 2x4 depending on desktop motherboard designs. |
| Intel® Integrated 10/100/1000 MAC | Support for the Intel® Ethernet Connection I219-LM. |

INTEL® W480 CHIPSET BLOCK DIAGRAM



- 1 Intel technologies may require enabled hardware, software or service activation.
- 2 Intel® Optane memory requires specific hardware and software configuration. Visit www.intel.com/OptaneMemory for configuration requirements.
- 3 Gigabit Wi-Fi speeds based on IEEE theoretical maximum bandwidth enabled by 2x2 802.11ac 160MHz (1.733Mbps) and requires the use of similarly configured router. Intel® Wi-Fi 6 (Gig+) products support optional 160 MHz channels, enabling the fastest possible theoretical maximum speeds (2402 Mbps) for typical 2x2 802.11 AX PC Wi-Fi products. Premium Intel® Wi-Fi 6 (Gig+) products enable 2-4X faster maximum theoretical speeds compared standard 2x2 (1201 Mbps) or 1x1 (600 Mbps) 802.11 AX PC Wi-Fi products, which only support the mandatory requirement of 80 MHz channels
- 4 No product or component can be absolutely secure.
- 5 Your costs and results may vary.

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