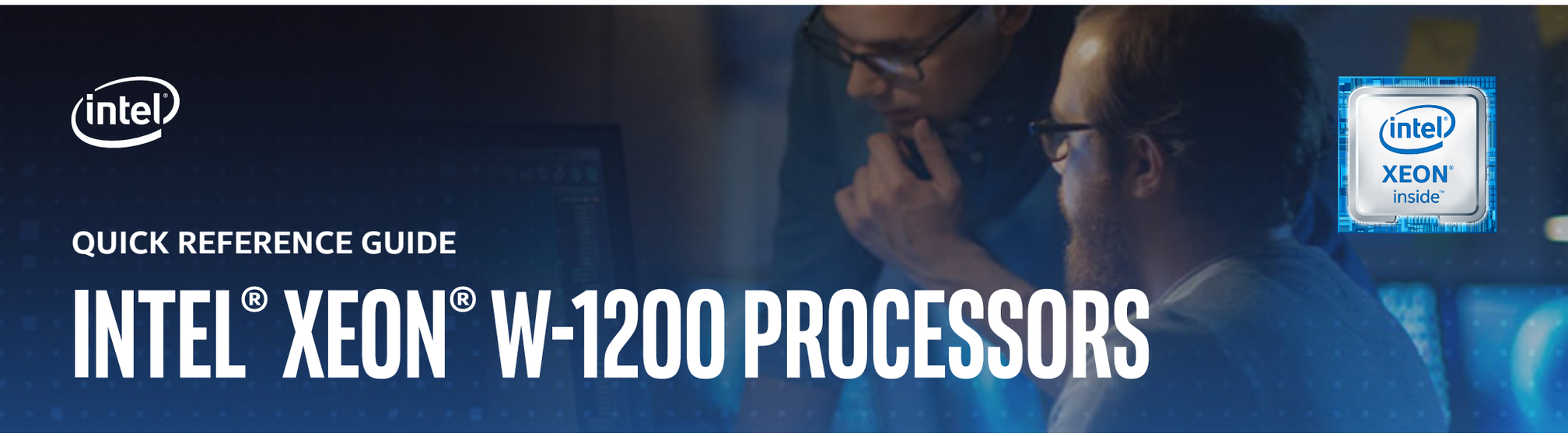

QUICK REFERENCE GUIDE

INTEL® XEON® W-1200 PROCESSORS

PRO-GRADE PERFORMANCE THAT'S BUILT TO WORK

Experience the high performance of an Intel® platform with the latest Intel® Xeon® W-1200 processors, designed for next-generation computing platforms and intended for use by professionals seeking performance and reliability in their workstations.

PROFESSIONAL-GRADE PERFORMANCE

Today's professional applications—from game development to 3D CAD modelling—require high-performance computing, with Intel® Xeon® W-1200 processors, these applications can make the most of frequencies of up to 5.3 GHz with Intel® Thermal Velocity Boost[1] and new Intel® Turbo Boost Max Technology 3.0—which provides an automatic performance boost for single-threaded applications. Support for up to 128GB of DDR4-2933 ECC memory completes the package—enabling fast memory speeds while also helping ensure data integrity for critical uses.[2]

ENTERPRISE-GRADE RELIABILITY

When it comes to your business, data integrity and system up-time is a priority for your workstation users. That's why Intel® Xeon® W-1200 processors feature Intel® vPro™ manageability and support for ECC memory so your critical data is protected from random bit-errors and IT can easily manage updates to the system.

EXCLUSIVE INTEL TECHNOLOGIES

Intel® Thermal Velocity Boost[1]	Get up to a blazing 5.3GHz, right out of the box for fast performance. Intel® Thermal Velocity Boost increases your processor's frequency when there is available thermal headroom.
Intel® Turbo Boost Max Technology 3.0	Delivers an automatic performance boost with lightly threaded applications. Intel® Turbo Boost Max Technology 3.0 assigns lightly threaded tasks to the fastest-performing core.
Intel® Hyper-Threading Technology	Multitask and get more done with highly threaded applications—get up to 10 cores and 20 threads on Intel® Xeon® W-1200 processors.

INTEL® XEON® W-1200 PROCESSORS

Processor Number	Socket	Cores/ Threads	Base Frequency (GHz)	Intel® Turbo Boost Max Technology 3.0 frequency (GHz)	Intel® Thermal Velocity Boost Technology Single/All Core Turbo Frequency (GHZ)[4]	Intel® Turbo Boost 2.0 Single core frequency (GHz)	TDP (W)	Intel® Smart Cache	Memory Speed[1]	Maximum Memory Capacity	Processor Graphics
W-1290P	LGA1200	10/20	3.7	5.2	5.3/4.9	5.1	125	20M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630
W-1270P	LGA1200	8/16	3.8	5.1	NA	5.0	125	16M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630
W-1250P	LGA1200	6/12	4.1	NA	NA	4.8	125	12M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630
W-1290	LGA1200	10/20	3.2	5.1	5.2/4.7	5.0	80	20M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630
W-1270	LGA1200	8/16	3.4	5.0	NA	4.9	80	16M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630
W-1250	LGA1200	6/12	3.3	NA	NA	4.7	80	12M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630
W-1290T	LGA1200	10/20	1.9	4.7	NA	4.6	35	20M	Dual Channel DDR4-2933	128GB	Intel® UHD Graphics P630

For more information, visit intel.com/xeon-workstations

1 Available only on select Intel® Xeon® W-1200 processors. Intel® Thermal Velocity Boost feature is opportunistic at a temperature of 70°C or lower and when turbo power budget is available. The frequency gain and duration is dependent on the workload (best for bursty workloads), capabilities of the individual processor, and the processor cooling solution. Frequencies may reduce over time and longer workloads may start at the max frequency but drop as processor temperature increases.

2 DDR4 maximum speed support is 1 and 2 DPC for UDIMMs but only 1 DPC for SODIMMs. DDR4 2DPC UDIMM 2933 or 2666 is capable when same UDIMM part number are populated with in each channel.

3 Intel® Optane™ memory requires specific hardware and software configuration. Visit www.intel.com/OptaneMemory for configuration requirements.