Is your network prepared to meet escalating demand for edge processing power and bandwidth?

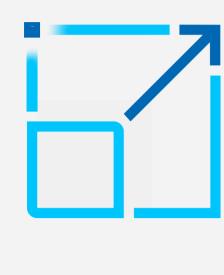
5%

of data will be created and processed outside the data center by 2025.1 of enterprises will run some amount of data processing at the edge by 2023.2



Unleash new edge use cases with a next-level system on a chip

Intel® Xeon® D processors are designed to deliver



Expand network

Scalability

capacity in response to demand with up to 20 cores per chip.



Capture performance

insights early and maximize uptime with improved instruction sets.



investment with

increased throughput per subscriber and workload consolidation.



Support explosive growth across

deployment scenarios with a processor designed for rugged environments.

Built-in AI Acceleration

Top features

- Advanced I/O
- Up to 100 Gbps Ethernet

Security appliances

Top workloads

- Virtualized RAN
- uCPE and SD-WAN

the most challenging edge compute environments and form factors Tap into high throughput at the edge thanks to dense integration

Deliver the highest performance in

Made for

sealed devices

Optimized for

High-density

BGA packaging

SD-WAN and **SASE**

Network infrastructure

Virtualized

RAN solutions

of compute, connectivity and rugged design.

Enterprise mid-band 4T4R

Storage

appliances

Artificial intelligence

Telco mid-band

32T32R

mmWave

5G User Plane

Function (UPF)

Single standard

architecture for NFV

Cloud edge

deployments

The newest generation of Intel® Xeon® D processors provide

throughput for performance for NGINX performance

(GCM with vAES) vs.

VPP IPSec vs. prior

generation*

savings

prior generation*

Improve latency and speed while creating efficiencies and cost

vCMTS vs. prior

generation*

Optimize resource utilization at the edge with Intel Al-enabled, cloud-ready and software-defined functionality. Distribute edge workloads easily with Al powered by

Vector Extensions 512 (Intel® AVX-512).

Vector Neural Network Instructions and Intel® Advanced

Speed traffic encryption

Technology (Intel® QAT).

with Intel® QuickAssist

Tailor and scale

solutions—thanks to

software compatibility

Scalable processors.

with 3rd Gen Intel® Xeon®

throughput Intel® Xeon® D

processors extend the

power and efficiency of

next-gen edge networks

cloud computing to

inline IPsec

PCIe Gen 4.0

lanes I/O

Intel offers the most complete set of technologies for communications service providers to transform their networks. Count on Intel® Xeon® D

processors—designed for the edge and

with the consistent, compatible Intel

architecture you know and trust.

Al performance

(ResNet-50-TensorFlow 2.0)

vs. prior generation*

Learn more at Intel.com/content/www/us/en/products/

docs/processors/xeon-d/overview.html

2. Deloitte Insights, "Gaining an intelligent edge: Edge computing and intelligence could propel tech and telecom growth," 2021 **Notices & Disclaimers**

*See [2, 3, 6, and 9] at www.intel.com/processorclaims - Intel® Xeon® D. Results may vary. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Performance benchmarks based on generation over generation improvement as compared with the Intel Xeon D-2700 compared to D-2100.

Gartner, "What Edge Computing Means for Infrastructure and Operations Leaders," 2018

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. Your costs and results may vary.

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