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Main page

Contact us

Contribute

Learn to edit

Upload file

Tools

Community portal

Recent changes

What links here Related changes

Special pages Permanent link

Page information

Cite this page

Wikidata item

Print/export

Languages

Download as PDF

Printable version

Add links

Donate

Help

Current events

Random article **About Wikipedia**

Contents

Not logged in Talk Contributions Create account Log in

Release +

date

6 April

2021

6 April

2021

Release

date

2021

6 April

2021

2021

2021

Release +

date

6 April

2021

2021

6 April

2021

6 April

2021

6 April

2021

2021

6 April

2021

Release 💠

date

Part

number(s)

Part

number(s)

6 April | CD8068904658102

6 April | CD8068904657901

6 April | CD8068904655303

6 April | CD8068904656601

BX806894316

Part

number(s)

CD8068904665802 | \$895

CD8068904657302 \$950

CD8068904658802 \$1375

CD8068904658602 \$1667

CD8068904656703 | \$1273

CD8068904659101 | \$1727

CD8068904657502 \$1300

\$1555

\$1894

\$2029

\$1977

6 April | CD8068904659201

6 April | CD8068904572101

6 April | CD8068904658702

BX806896336Y

BX806896330

CD8068904582501

CD8068904657601 \$2214

CD8068904658201 \$2742

CD8068904572501 \$2612

CD8068904722302 | \$2795

CD8068904657701 \$2529

CD8068904570201 \$2300

CD8068904572204 \$3072

CD8068904571601 \$2445

Part

number(s)

Release

price

(USD) ◆

BX806895320

BX806894314

BX806894310

BX806894309Y

CD8068904659001 | \$555

CD8068904658902 | \$1450

CD8068904570101 \$2600

I/O

Memory

8× DDR4-

8× DDR4-

3200

3200

♦ Memory **♦**

8× DDR4-

8× DDR4-

8× DDR4-

8× DDR4-

8× DDR4-

2666

2666

2666

2666

2666

I/O

Memory

8× DDR4-

8× DDR4-

8× DDR4-

8× DDR4-

2933

2666

2933

2933

bus

DMI

3.0

DMI

3.0

bus

2×

10.4

GT/s

UPI

bus

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

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Q

Release

price

Release

price

\$501

\$501

\$694

\$1002

Release

price

(USD) **♦**

(USD) ◆

(USD) ◆

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Article Talk

"Ice Lake-SP" (10 nm) Scalable Performance [edit]

List of Intel Xeon processors (Ice Lake-based)

This article **relies largely or entirely on a single source**. Relevant discussion may be found on the talk page. Please help

1 "Ice Lake-SP" (10 nm) Scalable Performance 1.1 Xeon Gold (uniprocessor) 1.2 Xeon Silver (dual processor)

Turbo

Boost

all-

core/2.0

(/max.

3.0)

3.1/3.6

GHz

2.9/3.4

Turbo

Boost

core/2.0

(/max.

3.0)

3.4/3.6

2.9/3.4

2.7/3.3

2.9/3.4

2.8/3.4

Turbo

Boost

all-

core/2.0

(/max.

3.0)

3.5/3.6

3.4/3.6

GHz

2.7/3.4

2.6/3.4

2.6/3.4

2.9/3.5

2.8/3.4

3.3/3.5

GHz

♦ Frequency **♦**

2.4 GHz

2.3 GHz

♦ Frequency **♦**

2.8 GHz

2.3 GHz

2.1 GHz

2.4 GHz

2.3 GHz

♦ Frequency **♦**

3.2 GHz

3 GHz

2.1 GHz

2.1 GHz

2.1 GHz

L2

cache

24 ×

32 x

1.25 MB

1.25 MB

L2

cache

 8×1.25

MB

10 ×

12 x

16 ×

20 ×

1.25 MB

L2

cache

 8×1.25

MB

12 x

24 ×

24 ×

24 ×

1.25 MB

L3

cache

36 MB

48 MB

L3

cache

12 MB

15 MB

18 MB

24 MB

30 MB

L3

cache

12 MB

18 MB

36 MB

36 MB

TDP ♦ Socket ◆

185 W

205 W

LGA

4189

LGA

4189

TDP ♦ Socket ♦

LGA

4189

LGA

4189

LGA

4189

LGA

4189

LGA

4189

TDP ♦ Socket ♦

LGA

4189

LGA

4189

LGA

4189

140 W

150 W

150 W

105 W

105 W

120 W

135 W

150 W

Contents [hide]

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1.3 Xeon Gold (dual processor) 1.4 Xeon Platinum (dual processor) 2 "Ice Lake-W" (10 nm) 2.1 Xeon W-33xx (uniprocessor) 3 References

• Support for up to 16 DIMMs of DDR4 memory per CPU socket, maximum 4 TB. • Supports up to two sockets^[1] PCI Express 4.0 lanes: 64 • -M: Media processing specialized

-N: Network & NFV specialized

• -P: laaS cloud specialized

• -Q: Liquid cooled • -S: 512 GB SGX enclave per CPU • -T: High thermal-case and extended reliability • -U: Uniprocessor

• -V: SaaS cloud specialized • -Y: Supports Intel SST-PP 2.0

Xeon Gold (uniprocessor) [edit]

Model Cores sSpec

(threads) number number

SRKXC (M1) 24 (48)

SRKHL (D2) 32 (64)

Cores

(threads)

6314U 🛂 Xeon Silver (dual processor) [edit]

number

SRKXS (M1) | 8 (16)

A		or (dddi f). O
	Model	sSpec	

Model	
number	•

Xeon Gold

Xeon Gold

6312U 🛂

Xeon Silver 4309Y ∠

> Xeon Silver SRKXP (M1) | 10 (20) 4310T ∠ Xeon Silver 4310 ₺

Xeon

Silver

Model

number

Xeon Gold

6354 ₺

Model

number

Xeon

Platinum

8336C

Xeon

Platinum

8338C

Xeon

Platinum

8341C

Xeon

Platinum

8347C

Xeon

Xeon

Xeon

Xeon

Xeon

Xeon

Platinum

8352V 🛂

Platinum

8352Y 2

Platinum

8357C

Xeon

Platinum

8358 🛂

Xeon

Platinum

8358P 2

Xeon

Xeon

Platinum

8360Y 2

Platinum

8361C

Xeon

Platinum

8362 🛂

Xeon

Platinum

8365B

Xeon

Platinum

8368 🛂

Xeon

Xeon

Platinum

8369B

Xeon

Platinum

8370C

Xeon

Platinum

8372C

Xeon

Platinum

8373C

Xeon

Platinum

8374C

Xeon

Platinum

8375C

Xeon

Platinum

8377C

Xeon

Platinum

8377D

Xeon

Platinum

8378A

Xeon

Platinum

8378C

Xeon

8380

Platinum

Model

number

Xeon W-

3323 ₺

Xeon W-

Xeon W-

Xeon W-

3365 ₺

Xeon W-

3375 ₺

References [edit]

3345 ₺

3335 ₺

Platinum

8368Q 🛂

Platinum

8352S 🛂

Platinum

8351N 2

Platinum

8352M 2

6348 🛂

6346 ₺

6342 🛂

6338N ₫

6338 🛂

6338T 🛂

6336Y 🛂

6334 🛂

6330N 🗗

SRKH9 (D2)

SRKXQ (M1) 8 (16)

SRKXB (M1) 24 (48)

SRKXF (M1) 24 (48)

32 (64)

32 (64)

28 (56)

18 (36)

SRKJ9 (D2)

SRKY2 (D2)

SRKXA (M1) 24 (48)

SRKHN (D2) 16 (32)

SRKHP (D2)

SRKH7 (D2)

Xeon Platinum (dual processor) [edit]

sSpec

number

SRKJ8 (D2)

SRKJ7 (D2)

SRKYJ

SRKJ6 (D2)

SRKJ3 (D2)

SRKYF (D2)

SRKJ8 (D2)

SRKJ2 (D2)

SRKHG (D2)

SRKJ4 (D2)

SRKJ1 (D2)

SRKJ0 (D2)

SRKHF (D2)

SRKY3 (D2)

SRKHS (D2)

SRKH8 (D2)

SRKHX (D2)

SRKHJ (D2)

SRKHC (D2)

SRKHY (D2)

SRKHB (D2)

SRKHD (D2)

SRKHT (D2)

SRKHR (D2)

"Ice Lake-W" (10 nm) [edit]

sSpec

number

SRKWT (M1) | 12 (24)

SRKWS (M1) | 16 (32)

SRKSW (D2) 32 (64)

SRKSX (D2) 38 (76)

SRKSU (D2)

• PCI Express lanes: 64

Xeon W-33xx (uniprocessor) [edit]

SRKHA, SRKUS (D2) | 32 (64)

SRKHW, SRKUT (D2) | 32 (64)

6330 ₺

6326 ₺

5320 ₺

5320T ∠

5318Y 🛂

5318S 🛂

5318N 🛂

5317 ₺

5315Y 🛂

SRKXN (M1) | 12 (24)

SRKXL (M1) | 16 (32)

sSpec number

Cores (threads) SRKXR (M1) 8 (16)

SRKXM (M1) 12 (24) SRKXG (M1) 24 (48)

SRKXD (M1) 24 (48) SRKXE (M1) 24 (48) SRKXJ (M1) 20 (40) SRKWU (M1) 26 (52) SRKXK (M1) 16 (32)

SRKHM (D2) 28 (56) 28 (56)

2.3 GHz 2.2 GHz 2.9 GHz 2 GHz 2.2 GHz 3.6 GHz 2.4 GHz

2.1 GHz

2 GHz

2.2 GHz

2.8 GHz

3.1 GHz

2.6 GHz

3 GHz

Cores

(threads)

32 (64)

32 (64)

24 (48)

36 (72)

36 (72)

32 (64)

32 (64)

36 (72)

32 (64)

32 (64)

32 (64)

32 (64)

36 (72)

38 (76)

32 (64)

32 (64)

38 (76)

38 (76)

32 (64)

32 (64)

28 (56)

36 (72)

36 (72)

32 (64)

32 (64)

38 (76)

40 (80)

• Supports up to 16 DIMMs of DDR4 memory, maximum 4 TB.^[2]

Cores

(threads)

24 (48)

Categories: Lists of microprocessors | Intel x86 microprocessors

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This page was last edited on 14 December 2022, at 23:18 (UTC).

GHz 2.6/3.2

2.6/3.1 GHz 2.6/3.4 GHz 3.6/3.7 GHz 3.0/3.6 GHz 2.7/3.4 GHz

GHz

2.7/3.5

3.3/3.5

3.6/3.6

3.4/3.5

3.6/3.6

GHz

♦ Frequency **♦**

2.3 GHz

2.6 GHz

3 GHz

2.1 GHz

2.4 GHz

2.3 GHz

2.2 GHz

2.1 GHz

2.2 GHz

2.7 GHz

2.6 GHz

2.6 GHz

2.4 GHz

2.1 GHz

2.8 GHz

2.6 GHz

2.4 GHz

2.6 GHz

2.9 GHz

2.8 GHz

3.2 GHz

2.6 GHz

2.7 GHz

2.9 GHz

3 GHz

3 GHz

3 GHz

2.8 GHz

2.3 GHz

GHz

GHz

GHz

GHz

32 ×

24 ×

16 ×

28 ×

18 ×

Turbo

Boost

all-

core/2.0

(/max.

3.0)

?/? GHz

?/? GHz

3.6/3.6

2.7/3.5

3.1/3.5

2.8/3.5

2.8/3.4

2.5/3.5

2.8/3.4

3.2/3.5

3.3/3.4

3.3/3.4

3.1/3.5

?/? GHz

3.5/3.6

?/? GHz

3.2/3.4

3.3/3.7

3.5/3.5

3.5/3.5

3.5/3.5

3.4/3.5

3.3/3.5

3.5/3.5

3.5/3.5

?/? GHz

3.5/3.5

3.5/3.6

3.0/3.4

GHz

Turbo

Boost

all-

core/2.0

(/max.

3.0)

?/3.9 GHz

?/4.0 GHz

?/4.0 GHz

?/4.0 GHz

?/4.0 GHz

Frequency \$

3.5 GHz

3.4 GHz

3 GHz

2.7 GHz

2.5 GHz

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L2

cache

12 ×

16 ×

24 ×

32 ×

38 ×

1.25 MB

1.25 MB

1.25 MB

1.25 MB

1.25 MB

GHz

1.25 MB

1.25 MB

1.25 MB

1.25 MB

1.25 MB

16 × 1.25 MB 28 × 1.25 MB 28 x 1.25 MB 8×1.25 MB 24 × 1.25 MB 24 × 1.25 MB 32 × 1.25 MB

20 × 30 MB 1.25 MB 26 × 39 MB 1.25 MB 24 MB 42 MB 42 MB 18 MB 36 MB

36 MB 165 W 185 W

165 W 165 W 150 W 185 W 185 W 205 W LGA 165 W 4189

LGA 4189 LGA 4189 LGA 4189 LGA 4189 LGA 4189 LGA 4189

UPI 3× 11.2 GT/s UPI 3× 11.2 GT/s UPI 3× 11.2 GT/s UPI 3× GT/s UPI 3× 11.2 GT/s UPI 3×

UPI

3×

11.2

GT/s

UPI

8× DDR4-

♦ Memory **♦**

8× DDR4-

Release

date

29 July

29 July

29 July

29 July

29 July

2021

2021

2021

2021

2021

6 April

2021

Part

number(s)

CD8068904708502 | \$949

CD8068904691303 | \$3499

CD8068904708401

CD8068904691101

CD8068904691401

CD8068904572601

\$8099

Release

price

\$1299

\$2499

\$4499

(USD) **♦**

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

6 April

2021

6 April

6 April

2021

6 April

2021

2021

CD8068904582702 | \$3027

CD8068904686504 \$3864

CD8068904642802 | \$4046

\$3450

\$3450

\$3950

\$3950

CD8068904571501

CD8068904572401

CD8068904572302

CD8068904599101

CD8068904571901 | \$4702

CD8068904722404 | \$5488

CD8068904572001 | \$6302

CD8068904582803 \$6743

3200

3200

3200

3200

3200

3200

3200

2933

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

3200

2666

3200

3200

3200

3200

bus

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

3×

11.2

GT/s

UPI

Memory **♦**

8× DDR4-

8× DDR4-

8× DDR4-

8× DDR4-

8× DDR4-

3200

3200

3200

3200

3200

bus

DMI

3.0

DMI

3.0

DMI

3.0

DMI

3.0

DMI

3.0

LGA

4189

TDP + Socket +

LGA

4189

270 W

210 W

225 W

185 W

205 W

195 W

205 W

240 W

250 W

240 W

250 W

265 W

270 W

270 W

270 W

270 W

300 W

300 W

270 W

300 W

330 W

? W

300 W

290 W

270 W

♦ Socket **♦**

LGA

4189

LGA

4189

LGA

4189

LGA

4189

LGA

4189

TDP

220 W

250 W

250 W

270 W

270 W

165 W

205 W

185 W

230 W

205 W

235 W

205 W

36 MB

48 MB

48 MB

36 MB

36 MB

42 MB

39 MB

L2

cache

32 ×

32 ×

24 ×

36 ×

36 ×

32 ×

32 x

36 ×

32 ×

32 ×

32 x

32 ×

36 ×

38 ×

32 ×

32 ×

38 ×

38 ×

32 ×

32 x

28 x

36 ×

36 ×

32 x

32 ×

32 x

32 ×

38 ×

40 ×

1.25 MB

L3

cache

21 MB

24 MB

36 MB

48 MB

57 MB

1. * Frumusanu, Andrei (6 April 2021). "Intel 3rd Gen Xeon Scalable (Ice Lake SP) Review: Generationally Big, Competitively Small" . * Anandtech. Retrieved 7 April 2021.

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1.25 MB

L3

cache

48 MB

48 MB

36 MB

54 MB

54 MB

48 MB

48 MB

54 MB

48 MB

48 MB

48 MB

48 MB

54 MB

57 MB

48 MB

48 MB

57 MB

57 MB

48 MB

48 MB

42 MB

54 MB

54 MB

54 MB

54 MB

54 MB

48 MB

57 MB

60 MB

8× DDR4-2933 8× DDR4-2933 8× DDR4-2933 8× DDR4-3200 8× DDR4-2933 8× DDR4-11.2 GT/s 2666

4314 ₺ Xeon Silver SRKXH (M1) | 20 (40) 4316 ₺ Xeon Gold (dual processor) [edit]