

FAQ / Application Note

Subject: HPC CPU Supporting SKU List

FAQ Document No: G23003

Date: 2023/09/28

Model Name: HPC series

Rev. A4

Category: General H/W S/W Others, 寫小分類

Purpose:

Intel IOTG CPU list for HPC series

HPM-246UA / HPS-246U4A / HPS-246UTA support up to 95W TDP

The Intel 8th & 9th Gen. Intel® Xeon® E, Core™ i7, i5, i3, Pentium®, Celeron® Processors IOTG SKUs support 15 years product availability from Intel.

Processors	Launch Date	Lithography	# of Cores	# of Threads	Processor Base Frequency	Max Turbo Frequency	TDP
Xeon E-2176G	Q3'18	14 nm	6	12	3.70 GHz	4.70 GHz	80 W
Xeon E-2124G	Q3'18	14 nm	4	4	3.40 GHz	4.50 GHz	71 W
Xeon E-2278GEL	Q2'19	14 nm	8	16	2.00 GHz	3.90 GHz	35 W
Xeon E-2278GE	Q2'19	14 nm	8	16	3.30 GHz	4.70 GHz	80 W
Xeon E-2226GE	Q2'19	14 nm	6	6	3.40 GHz	4.60 GHz	80 W
Core i7-8700	Q4'17	14 nm	6	12	3.20 GHz	4.60 GHz	65 W
Core i7-8700T	Q2'18	14 nm	6	12	2.40 GHz	4.00 GHz	35 W
Core i7-9700E	Q2'19	14 nm	8	8	2.60 GHz	4.40 GHz	65 W
Core i7-9700TE	Q2'19	14 nm	8	8	1.80 GHz	3.80 GHz	35 W
Core i5-8500	Q2'18	14 nm	6	6	3.00 GHz	4.10 GHz	65 W
Core i5-8500T	Q2'18	14 nm	6	6	2.10 GHz	3.50 GHz	35 W
Core i5-9500E	Q2'19	14 nm	6	6	3.00 GHz	4.20 GHz	65 W
Core i5-9500TE	Q2'19	14 nm	6	6	2.20 GHz	3.60 GHz	35 W
Core i3-8100	Q4'17	14 nm	4	4	3.60 GHz		65 W
Core i3-8100T	Q2'18	14 nm	4	4	3.10 GHz		35 W
Core i3-9100E	Q2'19	14 nm	4	4	3.10 GHz	3.70 GHz	65 W
Core i3-9100TE	Q2'19	14 nm	4	4	2.20 GHz	3.20 GHz	35 W
Pentium G5400	Q2'18	14 nm	2	4	3.70 GHz		58 W
Pentium G5400T	Q2'18	14 nm	2	4	3.10 GHz		35 W
Celeron G4900	Q2'18	14 nm	2	2	3.10 GHz		54 W
Celeron G4900T	Q2'18	14 nm	2	2	2.90 GHz		35 W

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HPM-621DE / HPS-621D4A / HPS-621DTA support up to 150W TDP each

HPM-621UA / HPS-621U4A / HPS-621UTA / HPM-621U2A support up to 150W TDP

The 1st Gen. Intel® Xeon® Scalable Processors IOTG SKUs support 10 years product availability from Intel.

Processors	Launch Date	Lithography	# of Cores	# of Threads	Processor Base Frequency	Max Turbo Frequency	TDP
Bronze 3106	Q3'17	14 nm	8	8	1.70 GHz		85 W
Silver 4109T	Q3'17	14 nm	8	16	2.00 GHz	3.00 GHz	70 W
Silver 4110	Q3'17	14 nm	8	16	2.10 GHz	3.00 GHz	85 W
Silver 4114T	Q3'17	14 nm	10	20	2.20 GHz	3.00 GHz	85 W
Silver 4116	Q3'17	14 nm	12	24	2.10 GHz	3.00 GHz	85 W
Silver 4116T	Q3'17	14 nm	12	24	2.10 GHz	3.00 GHz	85 W
Gold 5118	Q3'17	14 nm	12	24	2.30 GHz	3.20 GHz	105 W
Gold 5119T	Q3'17	14 nm	14	28	1.90 GHz	3.20 GHz	85 W
Gold 5120T	Q3'17	14 nm	14	28	2.20 GHz	3.20 GHz	105 W
Gold 6126T	Q3'17	14 nm	12	24	2.60 GHz	3.70 GHz	125 W
Gold 6126	Q3'17	14 nm	12	24	2.60 GHz	3.70 GHz	125 W
Gold 6130T	Q3'17	14 nm	16	32	2.10 GHz	3.70 GHz	125 W
Gold 6130	Q3'17	14 nm	16	32	2.10 GHz	3.70 GHz	125 W

The 2nd Gen. Intel® Xeon® Scalable Processors IOTG SKUs support 10 years product availability from Intel.

Processors	Launch Date	Lithography	# of Cores	# of Threads	Processor Base Frequency	Max Turbo Frequency	TDP
Silver 4209T	Q2'19	14 nm	8	16	2.20 GHz	3.20 GHz	70 W
Silver 4210	Q2'19	14 nm	10	20	2.20 GHz	3.20 GHz	85 W
Silver 4215	Q2'19	14 nm	8	16	2.50 GHz	3.50 GHz	85 W
Silver 4214	Q2'19	14 nm	12	24	2.20 GHz	3.20 GHz	85 W
Silver 4216	Q2'19	14 nm	16	32	2.10 GHz	3.20 GHz	100 W
Gold 5215	Q2'19	14 nm	10	20	2.50 GHz	3.40 GHz	85 W
Gold 5218T	Q2'19	14 nm	16	32	2.10 GHz	3.80 GHz	105 W
Gold 6226	Q2'19	14 nm	12	24	2.70 GHz	3.70 GHz	125 W
Gold 6230	Q2'19	14 nm	20	40	2.10 GHz	3.90 GHz	125 W
Gold 6238T	Q2'19	14 nm	22	44	1.90 GHz	3.70 GHz	125 W

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HPM-SRSDE / HPM-SRSUA / HPS-SRSU4A / HPS-SRSUTA support up to 270W TDP

The 4th Gen. Intel® Xeon® Scalable Processors IOTG SKUs support 10 years product availability from Intel.

Processors	Launch Date	Lithography	# of Cores	# of Threads	Processor Base Frequency	Max Turbo Frequency	TDP
Gold 6430	Q1'23	7 nm	32	64	2.1 GHz	3.4 GHz	270W
Gold 6448Y	Q1'23	7 nm	32	64	2.1 GHz	4.1 GHz	225 W
Gold 6426Y	Q1'23	7 nm	16	32	2.5 GHz	4.1 GHz	185 W
Gold 6418H	Q1'23	7 nm	24	48	2.1 GHz	4.0 GHz	185 W
Gold 5415+	Q1'23	7 nm	8	16	2.9 GHz	4.1 GHz	150 W
Gold 5420+	Q1'23	7 nm	28	56	2.0 GHz	4.1 GHz	205 W
Gold 5418Y	Q1'23	7 nm	24	48	2.0 GHz	3.8 GHz	185 W
Silver 4416+	Q1'23	7 nm	20	40	2.0 GHz	3.9 GHz	165 W
Silver 4410Y	Q1'23	7 nm	12	24	2.0 GHz	3.9 GHz	150 W
Silver 4410T	Q1'23	7 nm	10	20	2.7 GHz	4.0 GHz	150 W
Bronze 3408U *	Q1'23	7 nm	8	8	1.8 GHz	1.9 GHz	125 W

*Only HPM-SRSUA use.

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