Intel® 5520 Chipset

Summary Information	
Name	Intel® 5520 I/O Hub
Code Name	Formerly Tylersburg
Launch Date	Q1'09
Max TDP	27.1 Watts
TCase	95.1°C
Package Size	35.5mm x 35.5mm
Halogen Free Available	✓
Datasheet	
View Intel® Embedded and Communications Alliance Solutions	Intel® 5520 Chipset

Additional Component Information	
QPI Speed	6.40 GT/s
Max CPUs Supported	2
PCI Express Lanes Count	36
License Required	None
Integrated Graphics	✗
Dual Independent Display	✗
Graphics Output	

Intel® 82801IB I/O Controller
Intel® 82801IR I/O Controller
Intel® 82801JB I/O Controller
Intel® 82801JR I/O Controller

Valid MCH/ICH Combinations

Chipset Combination	7+ yr Chipset Mfg Avail	Intel® SIPP	Chipset Status
Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	Launched
Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	Launched
Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	Launched
Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	Launched

Ordering Information

Product Name	Socket	Step	Step TDP	Ordering Code	SPEC Code	7+ Mfg Avail	Halogen Free
82D36 I/O Hub (IOH)	FCBGA1295	B3	27.1 Watts	AC5520	SLGMU	✓	✓
82801JR I/O Controller Hub (ICH10R)	PBGA676	A0	4.5 Watts	AF82801JIR	SLB8S	✓	✓
82801JB I/O Controller Hub (ICH10)	PBGA676	A0	4.5 Watts	AF82801JIB	SLB8R	✓	✓
82801IR I/O Controller Hub (ICH9R)	PBGA676	A2	4.3 Watts	NH82801IR	SLA9N	✓	✗
82801IB I/O Controller Hub (ICH9)	PBGA676	A2	4.3 Watts	NH82801IB	SLA9M	✓	✗

Sampling Information

Retired and Discontinued

Valid Processor Combinations

Processor	System Details	7+ yr System Mfg Avail	Intel® SIPP	# of CPUs	System TDP	Estimated 1k Unit System Price
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	291.6 Watts	$3259
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	291.4 Watts	$3259
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	291.6 Watts	$3256
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	291.4 Watts	$3256
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	221.6 Watts	$2831
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	221.4 Watts	$2831
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	221.6 Watts	$2828
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	221.4 Watts	$2828
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	221.6 Watts	$2403
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	221.4 Watts	$2403
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	221.6 Watts	$2400
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	221.4 Watts	$2400
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	221.6 Watts	$1975
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	221.4 Watts	$1975
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	221.6 Watts	$1972
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	221.4 Watts	$1972
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	161.6 Watts	$1659
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	161.4 Watts	$1659
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	161.6 Watts	$1656
Intel® Xeon® Processor W5580 (8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	161.4 Watts	$1656
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	2	191.6 Watts	$1547
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	2	191.4 Watts	$1547
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	2	191.6 Watts	$1544
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	2	191.4 Watts	$1544
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	126.6 Watts	$1445
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	126.4 Watts	$1445
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	126.6 Watts	$1442
Intel® Xeon® Processor X5570 (8M Cache, 2.93 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	126.4 Watts	$1442
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	126.6 Watts	$1231
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	126.4 Watts	$1231
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	126.6 Watts	$1228
Intel® Xeon® Processor X5560 (8M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	126.4 Watts	$1228
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	151.6 Watts	$1119
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	191.6 Watts	$1119
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	151.4 Watts	$1119
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	191.4 Watts	$1119
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	151.6 Watts	$1116
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	191.6 Watts	$1116
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	151.4 Watts	$1116
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	191.4 Watts	$1116
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	126.6 Watts	$1017
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	126.4 Watts	$1017
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	126.6 Watts	$1014
Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	126.4 Watts	$1014
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	151.6 Watts	$905
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	151.4 Watts	$905
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	151.6 Watts	$902
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	151.4 Watts	$902
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	191.6 Watts	$805
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	191.4 Watts	$805
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	1	111.6 Watts	$803
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	1	111.4 Watts	$803
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	191.6 Watts	$802
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	191.4 Watts	$802
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	1	111.6 Watts	$800
Intel® Xeon® Processor E5540 (8M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	1	111.4 Watts	$800
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	191.6 Watts	$591
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	191.4 Watts	$591
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	91.6 Watts	$589
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	111.6 Watts	$589
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	91.4 Watts	$589
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	111.4 Watts	$589
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	191.6 Watts	$588
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	191.4 Watts	$588
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	91.6 Watts	$586
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	111.6 Watts	$586
Intel® Xeon® Processor L5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	91.4 Watts	$586
Intel® Xeon® Processor E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	111.4 Watts	$586
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	2	191.6 Watts	$507
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	2	191.4 Watts	$507
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	2	191.6 Watts	$504
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	2	191.4 Watts	$504
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	91.6 Watts	$482
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	91.4 Watts	$482
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	91.6 Watts	$479
Intel® Xeon® Processor L5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	91.4 Watts	$479
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	2	191.6 Watts	$435
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	2	191.4 Watts	$435
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	2	191.6 Watts	$432
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	111.6 Watts	$432
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	111.4 Watts	$432
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	2	191.4 Watts	$432
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	111.6 Watts	$429
Intel® Xeon® Processor E5520 (8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	111.4 Watts	$429
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	111.6 Watts	$325
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	111.4 Watts	$325
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	111.6 Watts	$322
Intel® Xeon® Processor E5506 (4M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	111.4 Watts	$322
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	1	111.6 Watts	$283
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	1	111.4 Watts	$283
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	1	111.6 Watts	$280
Intel® Xeon® Processor E5504 (4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	1	111.4 Watts	$280
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✗	✗	1	111.6 Watts	$247
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✗	✗	1	111.4 Watts	$247
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✗	✗	1	111.6 Watts	$244
Intel® Xeon® Processor E5502 (4M Cache, 1.86 GHz, 4.80 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✗	✗	1	111.4 Watts	$244
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	1	69.6 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	1	91.6 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	2	107.6 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JB I/O Controller Hub (ICH10)	✓	✗	2	151.6 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	1	69.6 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	1	91.6 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	2	107.6 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801JR I/O Controller Hub (ICH10R)	✓	✗	2	151.6 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	1	69.4 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	1	91.4 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	2	107.4 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IR I/O Controller Hub (ICH9R)	✓	✗	2	151.4 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	1	69.4 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	1	91.4 Watts	N/A
Intel® Xeon® Processor L5508 (8M Cache, 2.00 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	2	107.4 Watts	N/A
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)	Intel® 5520 Chipset with 82801IB I/O Controller Hub (ICH9)	✓	✗	2	151.4 Watts	N/A

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Bromine and/or chlorine in materials that may be used during processing, but do not remain within the final product are not included in this definition. The halogens fluorine (F), iodine (I), and astatine (At) are not restricted by this standard.

"BFR/CFR and PVC-Free" Definition:
An article must meet all of the following requirements to be defined as "BFR/CFR and PVC-Free":

1. All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B
2. For components other than PCB laminates, all homogeneous materials must contain < 900 ppm (0.09%) of Bromine [if the Bromine (Br) source is from BFRs] and < 900 ppm (0.09%) of Chlorine [if the Chlorine (Cl) source is from CFRs or PVC. Higher concentrations of Br and Cl are allowed in homogeneous materials of components other than PCB laminates as long as their sources are not BFRs, CFRs, PVC.
3. Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounds, or by appropriate material declarations agreed to between customer and supplier.