

	Design	Specification	socket	power	clock	link
Cpu	Intel Core i5 9600K	Intel(R) Core(TM) i5-9600K CPU @ 3.70GHz	Socket L1151 LGA	4297.7 Wm	3700 MHz	<a href="http://www.intel.com/content/www/us/en/products/docs/11th-gen/processor-den-cpu-ug-39-43-gpu-specs-01000.html">http://www.intel.com/content/www/us/en/products/docs/11th-gen/processor-den-cpu-ug-39-43-gpu-specs-01000.html</a>
System	MSI	MSI	MSI	MSI	MSI	<a href="https://www.msi.com/fr/fr/motherboard/36000-15/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15">https://www.msi.com/fr/fr/motherboard/36000-15/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15</a>
Mem	COBRA 32Gb	4 81m de 8Gb	DDR4-3600MHz	3200mW		<a href="https://www.coobra.com/fr/fr/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15">https://www.coobra.com/fr/fr/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15</a>
Storage	SATA	SSD				<a href="https://www.sata.com/fr/fr/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15">https://www.sata.com/fr/fr/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15/mag-z490-a-wifi-36000-15</a>
Video	Intel Iris Xe	Intel Iris Xe				<a href="https://www.intel.com/content/www/us/en/products/docs/11th-gen/processor-den-cpu-ug-39-43-gpu-specs-01000.html">https://www.intel.com/content/www/us/en/products/docs/11th-gen/processor-den-cpu-ug-39-43-gpu-specs-01000.html</a>
Audio	Intel Core i5 9600K	Intel Core i5 9600K	Intel Core i5 9600K	Intel Core i5 9600K	Intel Core i5 9600K	<a href="https://www.intel.com/content/www/us/en/products/docs/11th-gen/processor-den-cpu-ug-39-43-gpu-specs-01000.html">https://www.intel.com/content/www/us/en/products/docs/11th-gen/processor-den-cpu-ug-39-43-gpu-specs-01000.html</a>

CPU-Z TXT Report						
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Binaries						
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CPU-Z version	2.08.2-64					
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Processors						
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CPU Groups						
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CPU Group 0						
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Number of sockets						
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Number of threads						
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APIC						
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Socket 0						
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Core 0 (ID 0)						
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Core 1 (ID 1)						
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Core 2 (ID 2)						
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Core 3 (ID 3)						
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Core 4 (ID 4)						
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Core 5 (ID 5)						
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Core 6 (ID 6)						
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Core 7 (ID 7)						
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Core 8 (ID 8)						
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Core 9 (ID 9)						
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Core 10 (ID 10)						
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Core 11 (ID 11)						
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Core 12 (ID 12)						
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Core 13 (ID 13)						
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Core 14 (ID 14)						
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Core 15 (ID 15)						
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Core 16 (ID 16)						
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Core 17 (ID 17)						
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Core 18 (ID 18)						
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Core 19 (ID 19)						
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Core 20 (ID 20)						
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Core 21 (ID 21)						
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Core 22 (ID 22)						
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Core 23 (ID 23)						
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Core 24 (ID 24)						
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Core 25 (ID 25)						
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Core 26 (ID 26)						
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Core 27 (ID 27)						
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Core 28 (ID 28)						
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Core 29 (ID 29)						
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Core 30 (ID 30)						
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Core 31 (ID 31)						
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Core 32 (ID 32)						
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Core 33 (ID 33)						
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Core 34 (ID 34)						
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Core 35 (ID 35)						
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Core 36 (ID 36)						
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Core 37 (ID 37)						
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Core 38 (ID 38)						
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Core 39 (ID 39)						
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Core 40 (ID 40)						
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Core 41 (ID 41)						
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Core 42 (ID 42)						
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Core 43 (ID 43)						
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Core 44 (ID 44)						
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Core 45 (ID 45)						
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Core 46 (ID 46)						
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Core 47 (ID 47)						
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Core 48 (ID 48)						
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Core 49 (ID 49)						
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Core 50 (ID 50)						
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Core 51 (ID 51)						
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Core 52 (ID 52)						
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Core 53 (ID 53)						
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Core 54 (ID 54)						
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Core 55 (ID 55)						
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Core 56 (ID 56)						
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Core 57 (ID 57)						
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Core 58 (ID 58)						
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Core 59 (ID 59)						
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Core 60 (ID 60)						
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Core 61 (ID 61)						
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Core 62 (ID 62)						
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Core 63 (ID 63)						
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Core 64 (ID 64)						
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Core 65 (ID 65)						
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Core 66 (ID 66)						
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Core 67 (ID 67)						
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Core 68 (ID 68)						
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Core 69 (ID 69)						
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Core 70 (ID 70)						
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Core 71 (ID 71)						
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Core 72 (ID 72)						
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Core 73 (ID 73)						
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Core 74 (ID 74)						
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Core 75 (ID 75)						
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Core 76 (ID 76)						
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Core 77 (ID 77)						
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[illegible]

Thread ID	APIC ID	Topology	Processor ID-0, Core ID, 2 Thread ID	4
Cache descriptor	Level 1, 0, 32 KB, 2 Thread(s)			
Cache descriptor	Level 1, 1, 32 KB, 2 Thread(s)			
Cache descriptor	Level 2, 0, 256 KB, 2 Thread(s)			
Cache descriptor	Level 2, 1, 0 KB, 32 Thread(s)			
CPU0				
0x00000000	0x00000016	0x76656547	0x6C5746E	0x09505659
0x00000001	0x00000000	0x04100000	0x071A718F	0x00000000
0x00000002	0x760360E1	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x12041211	0x01C0003F	0x0000003F	0x00000000
0x00000005	0x12041212	0x01C0003F	0x0000003F	0x00000000
0x00000006	0x12041213	0x01C0003F	0x0000003F	0x00000000
0x00000007	0x12041214	0x01C0003F	0x0000003F	0x00000000
0x00000008	0x12041215	0x01C0003F	0x0000003F	0x00000000
0x00000009	0x12041216	0x01C0003F	0x0000003F	0x00000000
0x0000000A	0x12041217	0x01C0003F	0x0000003F	0x00000000
0x0000000B	0x12041218	0x01C0003F	0x0000003F	0x00000000
0x0000000C	0x12041219	0x01C0003F	0x0000003F	0x00000000
0x0000000D	0x1204121A	0x01C0003F	0x0000003F	0x00000000
0x0000000E	0x1204121B	0x01C0003F	0x0000003F	0x00000000
0x0000000F	0x1204121C	0x01C0003F	0x0000003F	0x00000000
0x00000010	0x1204121D	0x01C0003F	0x0000003F	0x00000000
0x00000011	0x1204121E	0x01C0003F	0x0000003F	0x00000000
0x00000012	0x1204121F	0x01C0003F	0x0000003F	0x00000000
0x00000013	0x12041220	0x01C0003F	0x0000003F	0x00000000
0x00000014	0x12041221	0x01C0003F	0x0000003F	0x00000000
0x00000015	0x12041222	0x01C0003F	0x0000003F	0x00000000
0x00000016	0x12041223	0x01C0003F	0x0000003F	0x00000000
0x00000017	0x12041224	0x01C0003F	0x0000003F	0x00000000
0x00000018	0x12041225	0x01C0003F	0x0000003F	0x00000000
0x00000019	0x12041226	0x01C0003F	0x0000003F	0x00000000
0x0000001A	0x12041227	0x01C0003F	0x0000003F	0x00000000
0x0000001B	0x12041228	0x01C0003F	0x0000003F	0x00000000
0x0000001C	0x12041229	0x01C0003F	0x0000003F	0x00000000
0x0000001D	0x1204122A	0x01C0003F	0x0000003F	0x00000000
0x0000001E	0x1204122B	0x01C0003F	0x0000003F	0x00000000
0x0000001F	0x1204122C	0x01C0003F	0x0000003F	0x00000000
0x00000020	0x1204122D	0x01C0003F	0x0000003F	0x00000000
0x00000021	0x1204122E	0x01C0003F	0x0000003F	0x00000000
0x00000022	0x1204122F	0x01C0003F	0x0000003F	0x00000000
0x00000023	0x12041230	0x01C0003F	0x0000003F	0x00000000
0x00000024	0x12041231	0x01C0003F	0x0000003F	0x00000000
0x00000025	0x12041232	0x01C0003F	0x0000003F	0x00000000
0x00000026	0x12041233	0x01C0003F	0x0000003F	0x00000000
0x00000027	0x12041234	0x01C0003F	0x0000003F	0x00000000
0x00000028	0x12041235	0x01C0003F	0x0000003F	0x00000000
0x00000029	0x12041236	0x01C0003F	0x0000003F	0x00000000
0x0000002A	0x12041237	0x01C0003F	0x0000003F	0x00000000
0x0000002B	0x12041238	0x01C0003F	0x0000003F	0x00000000
0x0000002C	0x12041239	0x01C0003F	0x0000003F	0x00000000
0x0000002D	0x1204123A	0x01C0003F	0x0000003F	0x00000000
0x0000002E	0x1204123B	0x01C0003F	0x0000003F	



[illegible]

JEDEC timings table	Diebus address	DxS2	8102 Mbytes
	Memory type	DDR4	
	Module format	UDIMM	
	Module Manufacturer(s)	Corvus (7F7F9D00000000000000000000)	
	SDRAM Manufacturer (S)	Naem Technology (7777F70B000000000000000000)	
	Size		
	Max bandwidth	DDR4-3000 (1501 MHz)	
	Max JEDEC	DDR4-2133 (1066 MHz)	
	Part number	CNV216G4M428300C13	
	Nominal Voltage	1.20 Volts	
	EEP	no	
	XMP	yes, rev. 2.0	
	AMP	no	
	EXPO	no	
	CL-0RCD-IMP-0RAS-0RC @ Frequency		
XMP profile	JEDEC #1	7.0-8.8-18-25 @ 1333 MHz	XMP-3000
	JEDEC #2	8.0-9.0-20-28 @ 800 MHz	
	JEDEC #3	9.0-9.0-23.31 @ 666 MHz	
	JEDEC #4	10.0-10.10-25.35 @ 733 MHz	
	JEDEC #5	11.0-11.11-27.38 @ 800 MHz	
	JEDEC #6	12.0-13.13-30.42 @ 900 MHz	
	JEDEC #7	13.0-14.14-32.45 @ 966 MHz	
	JEDEC #8	14.0-14.14-32.45 @ 1033 MHz	
	JEDEC #9	15.0-15.15-36.50 @ 1066 MHz	
	JEDEC #10	16.0-15.15-36.50 @ 1066 MHz	
	JEDEC #11	17.0-15.15-36.50 @ 1066 MHz	
	JEDEC #12	18.0-15.15-36.50 @ 1066 MHz	
	JEDEC #13	19.0-15.15-36.50 @ 1066 MHz	
	JEDEC #14	20.0-15.15-36.50 @ 1066 MHz	
	JEDEC #15	21.0-15.15-36.50 @ 1066 MHz	
XMP timings table	JEDEC #16	22.0-15.15-36.50 @ 1066 MHz	XMP-3000
	JEDEC #17	23.0-15.15-36.50 @ 1066 MHz	
	JEDEC #18	24.0-15.15-36.50 @ 1066 MHz	
	Specification	DDR4-3000	
	VDD Voltage	1.20 Volts	
	Min Cycle time	0.666 ns (1501 MHz)	
	Max CL		
	Min tRP		
	Min tRCD	11.33 ns	
	Min tRAS	21.18 ns	
	Min tRC		
	Min tRFD	4.00 ns	
	CL-0RCD-IMP-0RAS-0RCR @ Frequency (volts)		
	XMP #1	7.0-8.8-17.25-n-a @ 700 MHz (1.350 Volts)	
	XMP #2	8.0-10.10-19.28-n-a @ 800 MHz (1.350 Volts)	
	XMP #3	9.0-11.11-21.32-n-a @ 900 MHz (1.350 Volts)	
	XMP #4	10.0-11.12-24.35-n-a @ 1001 MHz (1.350 Volts)	
	XMP #5	11.0-13.13-26.39-n-a @ 1101 MHz (1.350 Volts)	
	XMP #6	12.0-14.14-28.42-n-a @ 1201 MHz (1.350 Volts)	
	XMP #7	13.0-15.15-31.46-n-a @ 1301 MHz (1.350 Volts)	
	XMP #8	14.0-16.16-33.49-n-a @ 1401 MHz (1.350 Volts)	
	XMP #9	15.0-17.17-35.52-n-a @ 1501 MHz (1.350 Volts)	
	XMP #10	16.0-17.17-35.52-n-a @ 1601 MHz (1.350 Volts)	
	XMP #11	17.0-17.17-35.52-n-a @ 1701 MHz (1.350 Volts)	
	XMP #12	18.0-17.17-35.52-n-a @ 1801 MHz (1.350 Volts)	
	XMP #13	19.0-17.17-35.52-n-a @ 1901 MHz (1.350 Volts)	
	XMP #14	20.0-17.17-35.52-n-a @ 2001 MHz (1.350 Volts)	
	XMP #15	21.0-17.17-35.52-n-a @ 2101 MHz (1.350 Volts)	
	XMP #16	22.0-17.17-35.52-n-a @ 2201 MHz (1.350 Volts)	
	XMP #17	23.0-17.17-35.52-n-a @ 2301 MHz (1.350 Volts)	
	XMP #18	24.0-17.17-35.52-n-a @ 2401 MHz (1.350 Volts)	

JEDEC timings table	Diebus address	DxS2	8102 Mbytes
	Memory type	DDR4	
	Module format	UDIMM	
	Module Manufacturer(s)	Corvus (7F7F9D00000000000000000000)	
	SDRAM Manufacturer (S)	SK Hynix (A0000000000000000000000000)	
	Size		
	Max bandwidth	DDR4-2988 (1499 MHz)	
	Max JEDEC	DDR4-2133 (1066 MHz)	
	Part number	CNV216G4M428300C13	
	Nominal Voltage	1.20 Volts	
	EEP	no	
	XMP	yes, rev. 2.0	
	AMP	no	
	EXPO	no	
	CL-0RCD-IMP-0RAS-0RC @ Frequency		
XMP profile	JEDEC #1	8.0-9.10-22.31 @ 666 MHz	XMP-2988
	JEDEC #2	10.0-10.10-25.35 @ 733 MHz	
	JEDEC #3	11.0-11.12-27.38 @ 800 MHz	
	JEDEC #4	12.0-13.13-30.42 @ 900 MHz	
	JEDEC #5	13.0-14.14-32.45 @ 966 MHz	
	JEDEC #6	14.0-14.15-35.49 @ 1033 MHz	
	JEDEC #7	15.0-15.15-36.50 @ 1066 MHz	
	JEDEC #8	16.0-15.15-36.50 @ 1066 MHz	
	Specification	DDR4-2988	
	VDD Voltage	1.20 Volts	
	Min Cycle time	0.667 ns (1499 MHz)	
	Max CL		
	Min tRP		
	Min tRCD	11.33 ns	
	Min tRAS	21.18 ns	
	Min tRC		
	Min tRFD	4.00 ns	
XMP timings table	CL-0RCD-IMP-0RAS-0RCR @ Frequency (volts)		XMP-2988
	XMP #1	8.0-11.11-21.32-n-a @ 800 MHz (1.350 Volts)	
	XMP #2	10.0-12.12-24.35-n-a @ 1000 MHz (1.350 Volts)	
	XMP #3	11.0-13.13-26.39-n-a @ 1100 MHz (1.350 Volts)	
	XMP #4	12.0-14.14-28.42-n-a @ 1200 MHz (1.350 Volts)	
	XMP #5	13.0-15.15-31.46-n-a @ 1300 MHz (1.350 Volts)	
	XMP #6	14.0-16.16-33.49-n-a @ 1400 MHz (1.350 Volts)	
	XMP #7	15.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #8	16.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #9	17.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #10	18.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #11	19.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #12	20.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #13		
	XMP #14		
	XMP #15		

JEDEC timings table	Diebus address	DxS2	8102 Mbytes
	Memory type	DDR4	
	Module format	UDIMM	
	Module Manufacturer(s)	Corvus (7F7F9D00000000000000000000)	
	SDRAM Manufacturer (S)	SK Hynix (A0000000000000000000000000)	
	Size		
	Max bandwidth	DDR4-2133 (1066 MHz)	
	Max JEDEC	DDR4-2133 (1066 MHz)	
	Part number	CNV216G4M428300C13	
	Nominal Voltage	1.20 Volts	
	EEP	no	
	XMP	yes, rev. 2.0	
	AMP	no	
	EXPO	no	
	CL-0RCD-IMP-0RAS-0RC @ Frequency		
XMP profile	JEDEC #1	8.0-9.10-22.31 @ 666 MHz	XMP-2988
	JEDEC #2	10.0-10.10-25.35 @ 733 MHz	
	JEDEC #3	11.0-11.12-27.38 @ 800 MHz	
	JEDEC #4	12.0-13.13-30.42 @ 900 MHz	
	JEDEC #5	13.0-14.14-32.45 @ 966 MHz	
	JEDEC #6	14.0-14.15-35.49 @ 1033 MHz	
	JEDEC #7	15.0-15.15-36.50 @ 1066 MHz	
	JEDEC #8	16.0-15.15-36.50 @ 1066 MHz	
	Specification	DDR4-2988	
	VDD Voltage	1.20 Volts	
	Min Cycle time	0.667 ns (1499 MHz)	
	Max CL		
	Min tRP		
	Min tRCD	11.33 ns	
	Min tRAS	21.18 ns	
	Min tRC		
	Min tRFD	4.00 ns	
XMP timings table	CL-0RCD-IMP-0RAS-0RCR @ Frequency (volts)		XMP-2988
	XMP #1	8.0-11.11-21.32-n-a @ 800 MHz (1.350 Volts)	
	XMP #2	10.0-12.12-24.35-n-a @ 1000 MHz (1.350 Volts)	
	XMP #3	11.0-13.13-26.39-n-a @ 1100 MHz (1.350 Volts)	
	XMP #4	12.0-14.14-28.42-n-a @ 1200 MHz (1.350 Volts)	
	XMP #5	13.0-15.15-31.46-n-a @ 1300 MHz (1.350 Volts)	
	XMP #6	14.0-16.16-33.49-n-a @ 1400 MHz (1.350 Volts)	
	XMP #7	15.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #8	16.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #9	17.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #10	18.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #11	19.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #12	20.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #13		
	XMP #14		
	XMP #15		

JEDEC timings table	Diebus address	DxS2	8102 Mbytes
	Memory type	DDR4	
	Module format	UDIMM	
	Module Manufacturer(s)	Corvus (7F7F9D00000000000000000000)	
	SDRAM Manufacturer (S)	SK Hynix (A0000000000000000000000000)	
	Size		
	Max bandwidth	DDR4-2133 (1066 MHz)	
	Max JEDEC	DDR4-2133 (1066 MHz)	
	Part number	CNV216G4M428300C13	
	Nominal Voltage	1.20 Volts	
	EEP	no	
	XMP	yes, rev. 2.0	
	AMP	no	
	EXPO	no	
	CL-0RCD-IMP-0RAS-0RC @ Frequency		
XMP profile	JEDEC #1	8.0-9.10-22.31 @ 666 MHz	XMP-2988
	JEDEC #2	10.0-10.10-25.35 @ 733 MHz	
	JEDEC #3	11.0-11.12-27.38 @ 800 MHz	
	JEDEC #4	12.0-13.13-30.42 @ 900 MHz	
	JEDEC #5	13.0-14.14-32.45 @ 966 MHz	
	JEDEC #6	14.0-14.15-35.49 @ 1033 MHz	
	JEDEC #7	15.0-15.15-36.50 @ 1066 MHz	
	JEDEC #8	16.0-15.15-36.50 @ 1066 MHz	
	Specification	DDR4-2988	
	VDD Voltage	1.20 Volts	
	Min Cycle time	0.667 ns (1499 MHz)	
	Max CL		
	Min tRP		
	Min tRCD	11.33 ns	
	Min tRAS	21.18 ns	
	Min tRC		
	Min tRFD	4.00 ns	
XMP timings table	CL-0RCD-IMP-0RAS-0RCR @ Frequency (volts)		XMP-2988
	XMP #1	8.0-11.11-21.32-n-a @ 800 MHz (1.350 Volts)	
	XMP #2	10.0-12.12-24.35-n-a @ 1000 MHz (1.350 Volts)	
	XMP #3	11.0-13.13-26.39-n-a @ 1100 MHz (1.350 Volts)	
	XMP #4	12.0-14.14-28.42-n-a @ 1200 MHz (1.350 Volts)	
	XMP #5	13.0-15.15-31.46-n-a @ 1300 MHz (1.350 Volts)	
	XMP #6	14.0-16.16-33.49-n-a @ 1400 MHz (1.350 Volts)	
	XMP #7	15.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #8	16.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #9	17.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #10	18.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #11	19.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #12	20.0-17.17-35.52-n-a @ 1499 MHz (1.350 Volts)	
	XMP #13		
	XMP #14		
	XMP #15		

SPD registers		
		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
	0	23 30 0C 28 25 1 200 0A 00 00 00 01 01 01 00 00
	1	00 00 00 00 FF F F 03 00 00 4C 4C 11 30 0A 0A 0A
	2	00 00 00 00 05 0A 01 28 28 00 00 00 00 00 00
	3	20 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	4	36 36 36 36 36 36 36 36 36 36 36 36 36 36 36
	40	16 36 36 36 00 28 28 28 28 28 28 28 28 28 28 28
	50	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	60	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	70	00 00 00 00 00 00 81 C 0 00 00 00 00 C2 80 00
	80	11 11 00 00 00 00 00 00 00 00 00 00 00 00 00
	90	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	9F	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
AD		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
CD		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DD		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
ED		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FD		00 00 00 00 00 00 00 00 00 00 00 00 00 00 34
100		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
110		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
120		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140		02 00 00 00 00 00 00 00 00 43 40 A8 13 36 4 58
150		34 40 32 2 4 3 1 30 30 43 1 31 20 20 00 00 00
160		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
170		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180		0C 4A 31 32 00 00 00 00 00 00 43 30 00 00 FF F 03
190		00 05 58 58 10 8A 14 F0 6A 20 00 00 00 00 00 20
1A0		28 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1FFF		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

[illegible]

Mainboard Model		2370 WNT GARNING (M5-7846) [26c02000861 - 04c9425f46]
LPCD		
LPCD Vendor	Revision	
LPCD Model	NC78795	
LPCD Vendor ID	0x5C43	
LPCD Chip ID	0x03	
LPCD Revision ID	0x03	
Config Mode ID address	0x42	
Config Mode ID	0x4c	
Config Mode registers	0x8	
<pre> 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 10: FF FF FF FF FF FF FF FF 3D 3C 3B 3A 39 38 20: 03 32 FF 00 04 4C 03 31 FF 5B 00 00 00 00 3B 30: 02 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 60: 04 2D 3A 32 02 00 00 00 00 00 00 00 00 00 00 70: 0D FF FF FF FF FF FF FF FF FF FF FF FF FF FF </pre>		
Bootchip name		18F - bios address = 0x7d310

Hardware Monitors		
Hardware monitor		
Voltage 0	Navigation	Navigation
Voltage 1		3.54 Volts [Bn21] (BNC2)
Voltage 2		3.55 Volts [Bn22] (BNC3)
Voltage 3		1.23 Volts [Bn23] (System Agent)
Voltage 4		1.27 Volts [Bn24] (CPU VCore)
Voltage 5		1.47 Volts [Bn25] (BIOSSM)
Voltage 10		11.80 Volts [Bn27] (+5V)
Voltage 11		5.08 Volts [Bn27] (+5V)
Voltage 12		1.17 Volts [Bn28] (IO Voltage)
Voltage 13		1.05 Volts [Bn29] (PCH Voltage)
Voltage 14		0.13 Volts [Bn29] (IO Voltage)
Temperature 0		31 degC [Bn37] (CPU1) (SYSTEM)
Temperature 1		42 degC [Bn38] (CPU3) (CPU1IN)
Temperature 3		49 degC [Bn39] (CPU1) (TEMPIN)
Temperature 5		41 degC [Bn39] (CPU2) (TEMPIN)
Temperature 6		31 degC [Bn39] (CPU3) (TEMPIN)
Fan 1		2151 RPM [Bn40] (CPU1)
Fan 2		1247 RPM [Bn40] (System Fan)
Fan 3		1299 RPM [Bn41] (System Fan)
Fan 4		1272 RPM [Bn42] (System Fan)
Fan 5		1268 RPM [Bn42] (System Fan)

[illegible]

Hardware monitor	Intel VT	0.00 MHz [JdE] (Graphics) n.a. (Memory) n.a. (Processor)
Hardware monitor	NVIDIA NVML	24.73 W (GPU)
Hardware monitor	NVIDIA NVAPI	24.73 W (GPU) 1320.00 MHz [DcX2E] (Graphics) 4320.00 MHz [DcX2E] (Memory) n.a. (Processor)

PCI Devices			
Register space			
Description	PCI Express, base address = 0x00000000		
Location	Host Bridge		
Common header	bus ID 0x00, device ID 0x00, function ID 0x00		
Vendor ID	0x8086 (intel)		
Model ID	0x312C		
Revision ID	0x02		
PI	0x312C		0x00
SubClass	0x00		
BaseClass	0x06		
Caching Line	0x00		
Latency			0x00
Header			0x00
PCI header			
Subsystem ID	0x312C (MSI)		
Subsystem ID	0x7846		
Int. Line	0x00		
Int. Pin	0x00		
PCI capability			
Capa class	Vendor Dependent		
Capa offset	0x00		
PCI registers			

[illegible]

Description		PCI to PCI Bridge	
Location		bus 0 (pci0), device 1 (pci1), function 0 (pci0)	
Common header			
	Vendor ID	0x0266 (intel)	
	Model ID	0x0002	
	Revision ID	0x00	
	PI		0x00
	SubClass	0x04	
	BaseClass	0x06	
	Cache Line	0x10	
	Latency		0x00
	Header		0x01
PCI header			
	Primary bus	0x00	
	Secondary bus	0x01	
	Int. Line	0x06	
	Int. Pin	0x01	
PCI capability			
	Caps class	Subsystem Vendor	
	Caps offset	0x08	
	SubVendor ID	0x1402 (MSI)	
	Subsystem ID	0x7046	
PCI capability			
	Caps class	Power Management	
	Caps offset	0x00	
	Caps version	1.2	
PCI capability			
	Caps class	Message Signalled Interrupts	
	Caps offset	0x00	
PCI capability			

	Caps class	PCI Express	
	Caps offset	0x40	
	Device type	Root Port of PCI Root Complex	
	Port		
	Caps version	2.0	
	Physical slot	MS	
	Power Mgmt	yes	
	Link width	16x (max 16x)	
	Link speed	8.0 GT/s (max 8.0 GT/s)	
PCI extended capability	Caps class	Virtual Channel	
	Caps offset	0x100	
PCI extended capability	Caps class	Root Complex Link Declaration	
	Caps offset	0x140	
	Link Features #		1
	Port Number		2
PCI extended capability	Caps class	Secondary PCI Express	
	Caps offset	0x204	
PCI registers			
		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F	
		0 86 80 01 19 07 04 10 00 00 00 0A 06 10 00 81 00	
		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		30 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		40 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		50 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		60 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		70 00 00 00 00 00 00 00 00 00 63 17 00 00 00 0A	
		80 00 00 00 00 00 00 00 80 80 00 00 14 46 78	
		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
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		90 00 00 14 F0 10 00 40 01 00 00 00 00 C1 0A 08 00				
		00 00 00 00 18 00 00 00 40 02 00 00 01 0A 00 00				
		80 03 00 00 0C 00 00 00 30 00 00 00 00 00 00 00				
		C0 00 00 00 0C 00 00 00 10 00 00 00 00 00 00 00				
		D0 03 00 00 0C 00 00 00 30 00 00 00 00 00 00 00				
		E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
Description		Data Acquisition and Signal Processing Device				
Location		bus 0 (b405), device 20 (b414), function 2 (b402)				
Common header		Vendor ID	0x0086 (intel)			
		Model ID	0x2181			
		Revision ID	0x00			
		P1		0x00		
		SubClass		0x80		
		BaseClass		0x11		
PCI header		Cache Line	0x00			
		Latency		0x00		
		Header		0x00		
PCI capability		Address 0 (memory)	0x00000000F44B004			
		Subsystem ID		0x1462 (M5)		
		Int. Line		0x7846		
		Int. Pin		0x06		
PCI capability		Caps class	Power Management			
		Caps offset	0x00			
		Caps version	1.2			
PCI registers		Caps class	Message Signalled Interrupts			
		Caps offset	0x00			
		Caps version				
A0		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F				
		0 86 80 82 A2 02 04 10 00 00 00 00 01 00 00 00 00				
		10 04 80 44 0F 00 00 00 00 00 00 00 00 00 00 00 00				
		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		30 00 00 00 50 00 00 00 00 00 00 00 00 08 03 00 00				
		40 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		50 01 82 33 08 08 00 00 00 00 00 00 00 00 00 00 00				
		60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
C0		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
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E0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
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Description		Communication Device				
Location		bus 0 (b405), device 22 (b416), function 0 (b402)				
Common header		Vendor ID	0x0086 (intel)			
		Model ID	0x258A			
		Revision ID	0x00			
		P1		0x00		
		SubClass		0x80		
		BaseClass		0x07		
PCI header		Cache Line	0x00			
		Latency		0x00		
		Header		0x00		
PCI capability		Address 0 (memory)	0x00000000E7FF004			
		Subsystem ID		0x1462 (M5)		
		Int. Line		0x7846		
		Int. Pin		0x00		
PCI capability		Caps class	Power Management			
		Caps offset	0x00			
		Caps version	1.2			
PCI registers		Caps class	Message Signalled Interrupts			
		Caps offset	0x00			
		Caps version				
A0		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F				
		0 86 80 8A 06 04 10 00 00 00 00 00 00 00 00 00 00				
		10 04 7F 7F 00 00 00 00 00 00 00 00 00 00 00 00 00				
		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		30 00 00 00 50 00 00 00 00 00 00 00 00 00 00 00 00				
		40 50 00 00 10 00 01 80 00 00 00 00 00 00 00 00 00				
		50 01 8C 03 40 08 00 00 00 00 00 00 00 00 00 00 00				
		60 20 00 00 00 04 00 00 00 00 00 00 00 00 00 00 00				
		70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
C0		90 00 02 83 FE 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
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		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
Description		Serial ATA Controller - AHCI				
Location		bus 0 (b405), device 23 (b417), function 0 (b402)				
Common header		Vendor ID	0x0086 (intel)			
		Model ID	0x2582			
		Revision ID	0x00			
		P1		0x06		
		SubClass		0x06		
		BaseClass		0x01		
PCI header		Cache Line	0x00			
		Latency		0x00		
		Header		0x00		
PCI capability		Address 0 (memory)	0x0F480000			
		Address 1 (memory)	0x0F4C0000			
		Address 2 (port)	0x00000000			
		Address 3 (port)	0x00000000			
PCI capability		Address 4 (port)	0x00000000			
		Address 5 (memory)	0x0F480000			
		Subsystem ID		0x1462 (M5)		
		Int. Line		0x7846		
PCI registers		Caps class	Message Signalled Interrupts			
		Caps offset	0x00			
		Caps version				
A0		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F				
		0 86 80 82 A2 07 04 80 02 00 01 00 01 00 00 00 00				
		10 00 00 44 00 00 00 44 0F 00 00 00 00 00 00 00 00				
		20 01 F0 00 00 00 00 44 0F 00 00 00 00 00 00 00 00				
		30 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00				
		40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		70 01 A8 03 40 08 00 00 00 00 00 00 00 00 00 00 00				
		80 70 01 00 30 00 01 F0 00 00 00 00 00 00 00 00 00				
C0		90 00 00 FE 00 00 01 00 00 00 00 00 00 00 00 00 80				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
Description		PCI to PCI Bridge				
Location		bus 0 (b405), device 28 (b41c), function 0 (b400)				
Common header		Vendor ID	0x0086 (intel)			
		Model ID	0x4290			
		Revision ID	0x02			
		P1		0x00		
		SubClass		0x04		
		BaseClass		0x06		
PCI header		Cache Line	0x00			
		Latency		0x00		
		Header		0x01		
PCI capability		Primary bus	0x00			
		Secondary bus	0x02			
		Int. Line	0x06			
		Int. Pin	0x01			
PCI registers		Caps class	PCI Express			
		Caps offset	0x00			
		Caps version				
A0		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F				
		0 86 80 90 A2 04 04 10 00 00 00 00 00 00 00 00 00				
		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		20 70 FF 00 00 F1 FF 01 00 00 00 00 00 00 00 00 00 00				
		30 00 00 00 00 40 00 00 00 00 00 00 00 00 00 00 00				
		40 30 80 42 00 01 80 00 00 00 00 00 00 10 00 7C 71 01				
		50 00 00 01 10 60 00 04 00 00 00 00 00 00 00 00 00				
		60 00 00 00 00 37 78 08 00 00 00 00 00 00 00 00 00				
		70 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		80 70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
C0		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
Description		Root Port of PCI-E Root Complex				
Location		bus 0 (b405), device 28 (b41c), function 0 (b400)				
Common header		Vendor ID	0x0086 (intel)			
		Model ID	0x4290			
		Revision ID	0x02			
		P1		0x00		
		SubClass		0x04		
		BaseClass		0x06		
PCI header		Cache Line	0x00			
		Latency		0x00		
		Header		0x01		
PCI capability		Primary bus	0x00			
		Secondary bus	0x02			
		Int. Line	0x06			
		Int. Pin	0x01			
PCI registers		Caps class	PCI Express			
		Caps offset	0x00			
		Caps version				
A0		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F				
		0 86 80 90 A2 04 04 10 00 00 00 00 00 00 00 00 00				
		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		20 70 FF 00 00 F1 FF 01 00 00 00 00 00 00 00 00 00 00				
		30 00 00 00 00 40 00 00 00 00 00 00 00 00 00 00 00				
		40 30 80 42 00 01 80 00 00 00 00 00 00 10 00 7C 71 01				
C0		50 00 00 01 10 60 00 04 00 00 00 00 00 00 00 00 00				
		60 00 00 00 00 37 78 08 00 00 00 00 00 00 00 00 00				
		70 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		80 70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
Description		Integrated device				
Location		bus 0 (b405), device 28 (b41c), function 0 (b400)				
Common header		Vendor ID	0x0086 (intel)			
		Model ID	0x4290			
		Revision ID	0x02			
		P1		0x00		
		SubClass		0x04		
		BaseClass		0x06		
PCI header		Cache Line	0x00			
		Latency		0x00		
		Header		0x01		
PCI capability		Primary bus	0x00			
		Secondary bus	0x02			
		Int. Line	0x06			
		Int. Pin	0x01			
PCI registers		Caps class	PCI Express			
		Caps offset	0x00			
		Caps version				
A0		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F				
		0 86 80 90 A2 04 04 10 00 00 00 00 00 00 00 00 00				
		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00				
		20 70 FF 00 00 F1 FF 01 00 00 00 00 00 00 00 00 00 00				
		30 00 00 00 00 40 00 00 00 00 00 00 00 00 00 00 00				
		40 30 80 42 00 01 80 00 00 00 00 00 00 10 00 7C 71 01				
		C0		50 00 00 01 10 60 00 04 00 00 00 00 00 00 00 00 00		
				60 00 00 00 00 37 78 08 00 00 00 00 00 00 00 00 00		
				70 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
				80 70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00						
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00						
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00						
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00						
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00						
00 00 00 00 00						



[illegible][illegible]

Description		PCI to PCI Bridge
Location		bus 0 (Dn0), device 29 (Dx10), function 0 (Dn0)
Common header		
	Vendor ID	0x0000 (null)
	Model ID	0x0000
	Revision ID	0x00
	PI	
	SubClass	0x04
	BaseClass	0x06
	Caching Line	0x00
	Latency	
	Header	0x00
PCI header		0x01
	Primary Bus	0x00
	Secondary bus	0x00
	Int. Line	0x08
	Int. Pin	0x00
PCI capability		
	Cap's class	PCI Express
	Cap's offset	0x00
	Device type	
	Port	Root Port of PCI-E Root Complex
	Cap's version	2.0
	Physical size	#2
	Presence detect	yes
	Link width	4x (max 4x)
	Link speed	8.0 GT/s (max 8.0 GT/s)
PCI capability		
	Cap's class	Message Signalled Interrupts
	Cap's offset	0x00
PCI capability		
	Cap's class	Subsystem Vendor
	Cap's offset	0x00
	SubVendor ID	0x0402 (AVS2)
	Subsystem ID	0x7846
PCI capability		
	Cap's class	Power Management
	Cap's offset	0x00
	Cap's version	1.2
PCI extended capability		
	Cap's class	Advanced Error Reporting
	Cap's offset	0x00
PCI extended capability		
	Cap's class	Dn0
	Cap's offset	0x00
PCI extended capability		
	Cap's class	Secondary PCI Express
	Cap's offset	0x00

		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F		
		0 86 80 A2 06 04 10 00 00 00 00 00 0A 05 10 00 01 00		
		10 00 00 00 00 00 00 00 00 00 00 05 05 00 00 00 20		
		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		30 00 00 00 00 00 00 00 00 00 00 00 00 08 01 00 00		
		40 3B 42 03 01 00 00 20 00 10 00 04 40 70 00 00 00		
		50 40 00 43 70 00 70 44 00 00 00 00 44 01 00 00 00		
		60 00 00 00 37 08 00 00 00 04 00 00 00 00 00 00 00		
		70 03 02 3F 00 00 00 00 00 00 00 00 00 00 00 00 00		
		80 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
AD		01 03 03 00 00 00 00 00 00 00 00 00 00 00 00 00		
B0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
C0		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
D0		11 00 00 07 42 18 00 08 00 00 00 80 00 00 00 00 00		
E0		00 0F 73 00 00 00 00 00 00 00 00 00 00 00 00 00		
F0		00 00 00 00 03 00 40 83 0F 00 08 00 00 00 00 00		
		01 00 01 14 00 00 00 00 00 00 00 00 00 00 00 00		
		110 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		140 00 00 01 22 0F 00 00 00 00 00 00 00 00 00 00		
		150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
IAD		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
I80		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
I00		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
I100		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
I100-400		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
I10		00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
Description		PCI to SA Bridge		
Location		bus 0 (bus0), device 32 (bus32), function 0 (bus00)		
Common header		Vendor ID	0x0286 (intel)	
		Model ID	0xA2C9	
		Revision ID	0x00	
		P1		
		SubClass	0x01	
		BaseClass	0x06	
		Cache Line	0x00	
		Latency Header	0x00	
PCI header		Subvendor ID	0x1462 (MS)	
		Subsystem ID	0x7846	
		Int. Line	0x00	
		Int. Pin	0x00	
PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F		
		0 86 80 A2 07 00 00 00 00 00 00 00 06 00 00 00 00		
		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		30 00 00 00 00 00 00 00 00 00 00 00 00 14 46 70		
		40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		80 70 0E 3F 01 02 FC 00 01 0A 3C 00 01 03 0C 00		
		90 12 1C 00 00 00 00 00 00 00 00 00 00 00 00 00		
		AD	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		D0	33 22 11 0E 67 45 00 00 CF FF 00 00 80 00 00 00 00	
		E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		F0	00 00 00 00 00 00 00 00 83 0F 00 08 00 00 00 00	
Description		Memory Controller		
Location		bus 0 (bus0), device 32 (bus32), function 2 (bus02)		
Common header		Vendor ID	0x0286 (intel)	
		Model ID	0xA2A2	
		Revision ID	0x00	
		P1		
		SubClass	0x00	
		BaseClass	0x03	
		Cache Line	0x00	
		Latency Header	0x00	
PCI header		Address 0 (memory)	0xDFF444000	
		Subvendor ID	0x1462 (MS)	
		Subsystem ID	0x7846	
		Int. Line	0x00	
		Int. Pin	0x00	
PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F		
		0 86 80 A2 06 00 00 00 00 00 00 00 00 00 00 00 00		
		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		80 70 0E 3F 01 02 FC 00 01 0A 3C 00 01 03 0C 00		
		90 12 1C 00 00 00 00 00 00 00 00 00 00 00 00 00		
		AD	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		D0	33 22 11 0E 67 45 00 00 CF FF 00 00 80 00 00 00 00	
		E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		F0	00 00 00 00 00 00 00 00 83 0F 00 08 00 00 00 00	
Description		High Definition Audio (HDA)		
Location		bus 0 (bus0), device 32 (bus32), function 3 (bus03)		
Common header		Vendor ID	0x0286 (intel)	
		Model ID	0xA2F0	
		Revision ID	0x00	
		P1		
		SubClass	0x03	
		BaseClass	0x04	
		Cache Line	0x00	
		Latency Header	0x00	
PCI header		Address 0 (memory)	0xD0000000F44A004	
		Address 4 (memory)	0xD0000000F442004	
		Subvendor ID	0x1462 (MS)	
		Subsystem ID	0x0286	
		Int. Line	0x03	
		Int. Pin	0x01	
PCI capability		Capb class	Power Management	
		Capb offset	0x00	
		Capb version	1.2	
		Capb class	Message Signalled Interrupts	
		Capb offset	0x00	
PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F		
		0 86 80 A2 06 00 00 00 00 00 00 00 0A 05 10 00 01 00		
		10 04 00 44 0F 00 00 00 00 00 00 00 00 00 00 00 00		
		20 00 00 42 0F 00 00 00 00 00 00 00 00 00 00 00 00		
		30 00 00 00 50 00 00 00 00 00 00 00 00 00 00 00 00		
		40 00 00 00 00 00 00 00 00 00 00 00 00 00 14 46 70		
		50 01 60 43 03 08 00 00 00 00 00 00 00 00 00 00 00		
		60 05 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00		
		70 33 00 71 00 00 00 00 10 00 28 32 00 00 00 00 00		
		80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		AD	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		F0	00 00 00 00 00 00 00 00 83 0F 00 08 00 00 00 00	
Description		SMBus Controller		
Location		bus 0 (bus0), device 32 (bus32), function 4 (bus04)		
Common header		Vendor ID	0x0286 (intel)	
		Model ID	0xA2A3	
		Revision ID	0x00	
		P1		
		SubClass	0x05	
		BaseClass	0x0C	
		Cache Line	0x00	
		Latency Header	0x00	
PCI header		Address 0 (memory)	0xD0000000F44A004	
		Address 4 (port)	0xD0000000F442004	
		Subvendor ID	0x1462 (MS)	
		Subsystem ID	0x7846	
		Int. Line	0x00	
		Int. Pin	0x01	
PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F		
		0 86 80 A2 03 00 00 00 00 00 00 00 0C 00 00 00 00		
		10 04 00 44 0F 00 00 00 00 00 00 00 00 00 00 00 00		
		20 43 00 00 00 00 00 00 00 00 00 00 00 00 14 46 70		
		30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		50 01 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		60 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		80 24 00 04 00 00 00 00 00 00 00 00 00 00 00 00 00		
		90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		
		AD	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
		F0	00 00 00 00 00 00 00 00 83 0F 00 08 00 00 00 00	
Description		Ethernet Controller		
Location		bus 0 (bus0), device 32 (bus32), function 6 (bus06)		
Common header		Vendor ID	0x0286 (intel)	
		Model ID	0x0286	
		Revision ID	0x00	
		P1		
		SubClass	0x00	
		BaseClass	0x02	
		Cache Line	0x00	
		Latency Header	0x00	
PCI header		Address 0 (memory)	0xDFF400000	
		Subvendor ID	0x1462 (MS)	
		Subsystem ID	0x7846	
		Int. Line	0x00	
		Int. Pin	0x01	
PCI capability		Capb class	Power Management	
		Capb offset	0x00	
		Capb version	1.2	
		Capb class	Message Signalled Interrupts	
		Capb offset	0x00	
PCI capability		Capb class	0x13	
		Capb offset	0x00	

PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 86 80 88 15 06 04 10 00 00 00 00 02 00 00 00 00 10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 AD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 CD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 FD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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Description		VGA Controller
Location		bus 1 (bdf1), device 0 (bdf0), function 0 (bdf0)
Common header	Vendor ID	0x20DE (NVidia)
	Model ID	0x2182
	Revision ID	0x41
	P1	
	SubClass	0x00
	BaseClass	0x03
	Cache Line	0x10
	Latency	
	Header	0x00

PCI header	Address 0 (memory)	0x00000000
	Address 1 (memory)	0x0000000000000000
	Address 3 (memory)	0x0000000000000000
	Address 3 (port)	0x00000000
	Subvendor ID	0x1462 (MS)
	Subsystem ID	0x175A
	Int. Line	0x10
	Int. Pin	0x01

PCI capability	Caps class	Power Management
	Caps offset	0x00
	Caps version	1.2

PCI capability	Caps class	Message Signalled Interrupts
	Caps offset	0x08
	Caps class	PCI Express
	Caps offset	0x78
	Device type	Legacy PCI-E Endpoint Device
	Port	
	Caps version	2.0
	Link width	16x (max 16x)
	Link speed	8.0 GT/s (max 8.0 GT/s)

PCI extended capability	Caps class	Virtual Channel
	Caps offset	0x100

PCI extended capability	Caps class	0x18
	Caps offset	0x10

PCI extended capability	Caps class	0x15
	Caps offset	0x238

PCI extended capability	Caps class	Power Budgeting
	Caps offset	0x138

PCI extended capability	Caps class	Advanced Error Reporting
	Caps offset	0x10

PCI extended capability	Caps class	Vendor Specific
	Caps offset	0x000
	Vendor	
	Size	

PCI extended capability	Caps class	Secondary PCI Express
	Caps offset	0x000

PCI extended capability	Caps class	Reusable BAR
	Caps offset	0x000
	Reusable BARs	3
	BAR 0 size	16 MB
	BAR 1 size	256 MB
	BAR 2 size	32 MB

PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 0E 10 12 1F 02 10 00 A1 00 00 00 00 00 00 00 00 10 00 00 00 0C 00 00 C0 00 00 00 00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 40 02 14 5A 17 00 00 00 00 00 00 00 00 00 00 00 50 00 00 00 00 00 00 00 C4 00 21 00 00 00 00 00 60 01 08 C3 49 08 00 00 00 78 80 00 00 00 00 00 70 00 00 00 00 00 00 00 1A 00 11 01 11 80 3C 11 80 10 20 00 03 40 45 00 40 03 03 11 00 00 00 00 90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 AD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 CD 00 00 00 00 00 00 00 00 11 00 00 00 00 00 00 D0 02 14 5A 17 03 00 00 00 00 00 00 00 00 00 00 FD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 100 00 00 01 2A 00 00 00 00 00 00 00 00 00 00 00 110 00 00 00 00 FF 00 80 80 00 00 00 00 00 00 00 120 00 00 00 00 00 00 00 0A 04 00 00 00 42 00 00 130 21 81 07 00 00 00 00 00 00 00 00 00 00 00 00 140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 150 95 00 02 20 71 50 00 00 00 00 00 00 00 00 00 160 7E 05 00 02 00 03 00 02 80 01 00 00 80 3F 00 170 00 80 12 00 00 00 00 00 00 00 00 00 00 00 00 180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1F0 1,000-400 00
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Description		High Definition Audio (HDA)
Location		bus 1 (bdf1), device 0 (bdf0), function 1 (bdf1)
Common header	Vendor ID	0x20DE (NVidia)
	Model ID	0x1CAE8
	Revision ID	0xA1
	P1	
	SubClass	0x03
	BaseClass	0x04
	Cache Line	0x10
	Latency	
	Header	0x00

PCI header	Address 0 (memory)	0xDFF8B000
	Subvendor ID	0x1462 (MS)
	Subsystem ID	0x175A
	Int. Line	0x11
	Int. Pin	0x02

PCI capability	Caps class	Power Management
	Caps offset	0x00
	Caps version	1.2

PCI capability	Caps class	Message Signalled Interrupts
	Caps offset	0x08
	Caps class	PCI Express
	Caps offset	0x78
	Device type	PCI-E Endpoint Device
	Port	
	Caps version	2.0
	Link width	16x (max 16x)
	Link speed	8.0 GT/s (max 8.0 GT/s)

PCI extended capability	Caps class	Advanced Error Reporting
	Caps offset	0x100

PCI registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 0E 10 1B 1A 06 00 10 00 A1 00 01 04 00 00 00 00 10 00 08 0F 00 00 00 00 00 00 00 00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 40 02 14 5A 17 00 00 00 00 00 00 00 00 00 00 00 50 00 00 00 00 00 00 00 C4 00 21 00 00 00 00 00 60 01 08 00 00 00 00 00 19 80 00 00 00 00 00 00 70 00 00 00 00 00 00 00 10 00 02 00 01 80 3C 01 80 10 20 00 03 40 45 00 41 03 03 11 00 00 00 00 90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 AD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 CD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 FD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 100 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 110 01 00 03 00 00 00 00 00 00 00 00 30 20 46 00 120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1E0 1,000-400 00
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Description		USB Controller (XHCI)
Location		bus 1 (bdf1), device 0 (bdf0), function 2 (bdf2)
Common header	Vendor ID	0x20DE (NVidia)
	Model ID	0x1CAEC
	Revision ID	0xA1
	P1	
	SubClass	0x03
	BaseClass	0x0C
	Cache Line	0x10
	Latency	
	Header	0x00

PCI header	Address 0 (memory)	0x0000000000000000
	Address 3 (memory)	0x0000000000000000
	Subvendor ID	0x1462 (MS)
	Subsystem ID	0x175A
	Int. Line	0x00
	Int. Pin	0x03

PCI capability	Caps class	Message Signalled Interrupts
	Caps offset	0x08
	Caps class	PCI Express
	Caps offset	0x78
	Device type	PCI-E Endpoint Device
	Port	

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PCI capability	Capis version	2.0
	Link width	16x (max 16x)
	Link speed	8.0 GT/s (max 8.0 GT/s)
PCI extended capability	Capis class	Power Management
	Capis offset	0x8
	Capis version	1.2
PCI registers	Capis class	Advanced Error Reporting
	Capis offset	0x100
	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 0E 01C 1A 06 04 10 0A 31 01 0C 12 08 08 00 10 0C 00 02 00 00 00 00 00 00 00 00 0C 00 04 02 20 00 00 00 00 00 00 00 00 00 00 00 02 14 5A 17 30 00 00 00 68 00 00 00 00 00 00 00 00 00 03 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 04 00 50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 60 31 00 00 00 00 00 00 03 78 81 00 00 01 01 0E 70 00 00 00 00 00 00 00 10 84 02 00 00 80 3C 01 80 10 09 00 03 40 45 00 40 00 01 11 00 00 00 00 90 00 00 00 00 00 00 00 00 00 00 00 01 10 08 04 00 AD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 01 00 43 48 08 00 00 00 00 00 00 00 C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 100 01 01 02 00 00 00 00 00 00 40 00 00 00 20 46 00 110 00 20 00 00 00 A0 00 00 00 00 00 00 00 00 00 120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 140 20 00 01 01 00 43 48 08 00 00 00 00 00 00 00 150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
Description	Serial Bus Controller	
Location	bus 1 (b431), device 0 (b430), function 0 (b431)	
Common header	Vendor ID	0x1000 (NVIDIA)
	Model ID	0x1A00
	Revision ID	0xA1
PCI header	PI	0x00
	SubClass	0x80
	BaseClass	0xC
PCI capability	Cache Line	0x10
	Latency	0x00
	Header	0x00
PCI header	Address 0 (memory)	0xD0F08400
	Subsystem ID	0x1462 (MSI)
	Subsystem ID	0x21A
PCI capability	Int. Line	0x00
	Int. Pin	0x04
PCI capability	Capis class	Message Signalled Interrupts
	Capis offset	0x8
PCI capability	Capis class	PCI Express
	Capis offset	0x78
	Device type	PCI-E Endpoint Device
PCI capability	Capis version	2.0
	Link width	16x (max 16x)
	Link speed	8.0 GT/s (max 8.0 GT/s)
PCI extended capability	Capis class	Power Management
	Capis offset	0x8
	Capis version	1.2
PCI extended capability	Capis class	Advanced Error Reporting
	Capis offset	0x100
PCI registers	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 0E 01C 1A 06 04 10 0A 31 01 0C 12 08 08 00 10 00 00 00 00 00 00 00 00 00 00 00 0C 00 04 02 20 00 00 00 00 00 00 00 00 00 00 00 02 14 5A 17 30 00 00 00 68 00 00 00 00 00 00 00 00 00 03 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 04 00 50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 70 00 00 00 00 00 00 00 03 78 81 00 00 01 01 0E 80 00 00 00 00 00 00 00 10 84 02 00 00 80 3C 01 90 10 09 00 03 40 45 00 40 00 01 11 00 00 00 00 AD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 C0 00 00 00 01 00 43 48 08 00 00 00 00 00 00 00 D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 100 01 01 02 00 00 00 00 00 00 40 00 00 00 20 46 00 110 00 20 00 00 00 A0 00 00 00 00 00 00 00 00 00 120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 140 20 00 01 01 00 43 48 08 00 00 00 00 00 00 00 150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
Description	USB Controller (xHCI)	
Location	bus 1 (b431), device 0 (b430), function 0 (b400)	
Common header	Vendor ID	0x1821 (ASMedia)
	Model ID	0x2142
	Revision ID	0x00
PCI header	PI	0x30
	SubClass	0x80
	BaseClass	0xC
PCI header	Cache Line	0x10
	Latency	0x00
	Header	0x00
PCI header	Address 0 (memory)	0xD0000000F1000004
	Subsystem ID	0x1462 (MSI)
	Subsystem ID	0x7846
PCI capability	Int. Line	0x00
	Int. Pin	0x01
PCI capability	Capis class	Message Signalled Interrupts
	Capis offset	0x10
PCI capability	Capis class	MSI-X
	Capis offset	0x8
PCI capability	Capis class	Power Management
	Capis offset	0x78
	Capis version	1.2
PCI capability	Capis class	PCI Express
	Capis offset	0x80
	Device type	Legacy PCI-E Endpoint Device
PCI capability	Capis version	2.0
	Link width	2x (max 2x)
	Link speed	8.0 GT/s (max 8.0 GT/s)
PCI extended capability	Capis class	Advanced Error Reporting
	Capis offset	0x100
PCI extended capability	Capis class	Secondary PCI Express
	Capis offset	0x200
PCI extended capability	Capis class	0x18
	Capis offset	0x800
PCI registers	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 21 18 42 21 08 04 10 00 00 00 00 0C 10 00 00 00 10 04 30 00 00 00 00 00 00 00 00 00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00 00 02 14 46 78 30 00 00 00 00 00 00 00 00 00 00 00 00 00 03 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 04 00 50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 60 80 40 00 00 00 00 00 11 78 01 80 00 20 00 00 70 80 20 00 00 00 00 00 01 80 41 C 08 00 00 00 80 10 02 12 02 23 18 07 00 20 00 00 01 0C 40 00 90 40 00 23 10 00 00 00 00 00 40 00 00 00 00 00 AD 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 100 01 00 01 20 00 00 00 00 00 00 00 00 00 00 00 110 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
Description	Network Controller	
Location	bus 4 (b404), device 0 (b400), function 0 (b400)	
Common header	Vendor ID	0x188C (Qualcomm Atheros)
	Model ID	0x0030
	Revision ID	0x01
PCI header	PI	0x00
	SubClass	0x80
	BaseClass	0xC2
PCI header	Cache Line	0x10
	Latency	0x00
	Header	0x00
PCI header	Address 0 (memory)	0xD0000000F2000004
	Subsystem ID	0x188C (Qualcomm Atheros)
	Subsystem ID	0x112
PCI capability	Int. Line	0x00
	Int. Pin	0x01
PCI capability	Capis class	Power Management
	Capis offset	0x80
	Capis version	1.2

	vendor version date ROM size	American Megatrends Inc. 1.80 06/09/2020
DMI System Information	manufacturer product version serial UUID SKU family	Micro-Star International Co. Ltd. MS-7846 1.0 Default string (XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX) Default string Default string Default string
DMI Baseboard	vendor model revision serial	Micro-Star International Co. Ltd. 237Q KRAT GAMING (MS-7846) HC16091811
DMI System Enclosure	manufacturer chassis type chassis serial	Micro-Star International Co. Ltd. Desktop Default string
DMI Port Connector	designation designation port type connector	/J1A1 (Internal) PS2Mouse (Internal) Mouse Port PS/2
DMI Port Connector	designation designation port type connector	/J1A1 (Internal) Keyboard (Internal) Keyboard Port PS/2
DMI Port Connector	designation designation connector	/J1A1 (Internal) TV Out (Internal) Mini Components Type-14
DMI Port Connector	designation designation port type connector	/J2A2 (Internal) COM A (Internal) Serial Port 16550A DB-9 male
DMI Port Connector	designation designation port type connector	/J2A2B (Internal) Video (Internal) Video Port DB-15 female
DMI Port Connector	designation designation port type connector	/J1A1 (Internal) USB1 (Internal) USB Access Bus (USB)
DMI Port Connector	designation	/J1A1 - TPM HDR (Internal)
DMI Port Connector	designation	/J6C1 - PCIE DOCKING CONN (Internal)

DMI Port Connector	designation	J283 - CPU FAN (Internal)		
DMI Port Connector	designation	J6C2 - EXT HDMI (Internal)		
DMI Port Connector	designation	J6C1 - eSATA FAN (Internal)		
DMI Port Connector	designation	J101 - ITP (Internal)		
DMI Port Connector	designation	J6E2 - MDC WTPSR (Internal)		
DMI Port Connector	designation	J6E4 - MDC WTPSR (Internal)		
DMI Port Connector	designation	J6E3 - LPC HOT DOCKING (Internal)		
DMI Port Connector	designation	J6E1 - SCAN MATRIX (Internal)		
DMI Port Connector	designation	J6C1 - LPC SIDE BAND (Internal)		
DMI Port Connector	designation	J6F1 - UNIFIED (Internal)		
DMI Port Connector	designation	J6F1 - LVDS (Internal)		
DMI Port Connector	designation	J2F1 - LAI FAN (Internal)		
DMI Port Connector	designation	J103 - GFX VIO (Internal)		
DMI Port Connector	designation	J106 - AC JACK (Internal)		
DMI Extension Slot	designation type populated	J6A2 yes	PCI Express	
DMI Extension Slot	designation type populated	J6A1 yes	PCI Express	
DMI Extension Slot	designation type populated	J6D1 yes	PCI Express	
DMI Extension Slot	designation type populated	J7E1 yes	PCI Express	
DMI Extension Slot	designation type populated	J6A4 yes	PCI Express	
DMI Extension Slot	designation type populated	J6D1 yes	PCI Express	
DMI Extension Slot	designation type populated	J6E3 yes	PCI 32 bits	
DMI OEM Strings	string[0]	Default string		
DMI Physical Memory Array	location usage connection max capacity module location	Motherboard None 64 GB	System Memory  4	
DMI Memory Device	designation format type total width data width size speed manufacturer part number serial number voltage	ChannelA-DIMM0  64 bits 64 bits 8 GB 3200 MHz G29E CMK16G8HM2B3000C15	DIMM DDR4  8 GB 3200 MHz  0 1.350.000	
DMI data	0 10 20 30 40 50 60	0x11 0x28 0x3A 0x40 0x49 0x40 0x4E 0x4F 0x40 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40		
DMI Memory Device	designation format type total width data width size speed manufacturer part number serial number voltage	ChannelA-DIMM1  64 bits 64 bits 8 GB 3200 MHz G29E CMK16G8HM2B3000C15	DIMM DDR4  8 GB 3200 MHz  0 1.350.000	
DMI data	0 10 20 30 40 50 60	0x11 0x28 0x3A 0x40 0x49 0x40 0x4E 0x4F 0x40 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40		
DMI Memory Device	designation format type total width data width size speed manufacturer part number serial number voltage	ChannelB-DIMM0  64 bits 64 bits 8 GB 3200 MHz G29E CMK16G8HM2B3000C15	DIMM DDR4  8 GB 3200 MHz  0 1.350.000	
DMI data	0 10 20 30 40 50 60	0x11 0x28 0x3A 0x40 0x49 0x40 0x4E 0x4F 0x40 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40		
DMI Memory Device	designation format type total width data width size speed manufacturer part number serial number voltage	ChannelB-DIMM1  64 bits 64 bits 8 GB 3200 MHz G29E CMK16G8HM2B3000C15	DIMM DDR4  8 GB 3200 MHz  0 1.350.000	
DMI data	0 10 20 30 40 50 60	0x11 0x28 0x3A 0x40 0x49 0x40 0x4E 0x4F 0x40 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40 0x40 0x40 0x40 0x40 0x49 0x49 0x40 0x41 0x42 0x3A 0x40		
DMI Processor	manufacturer model clock speed FID speed multicore max clock speed	Intel(R) Corporation 3700.0 MHz 100.0 MHz 37.0% 8300.0 MHz	Intel(R) Core(TM) i5-9600K CPU @ 3.70GHz C74680X000000001	
DMI data	0 10 20 30 40 50 60	0x04 0x30 0x43 0x40 0x41 0x43 0x43 0x43 0x43 0x43 0x40		
DMI Extension Slot	designation type populated	PCI-Express yes	PCI Express PCI Express	
DMI Extension Slot	designation type populated	PCI-Express 6 yes	PCI Express PCI Express	
DMI Extension Slot	designation type populated	PCI-Express 7 no	PCI Express PCI Express	
DMI Extension Slot	designation type populated	PCI-Express 8 yes	PCI Express PCI Express	
Storage				
Drive	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	\Device\NPF{...}		
	Device Path	\\.\acorn\ac		

	Features	SMART, TRIM	
	Controller	Serial ATA Controller - AHCI at bus 0, device 21, function 0	
	Volume	C:\, 447.3 GiBytes (33.8 percent available)	
Drive	Device Path	\\.\acsmidstorage\enumprod_armuring_and_94d958269411c8d800000000\3f56307468114405-04dc0cf1e1af8db	
	Size	Samung SSD 960 EVO Z50GB	
	Name	387QCEH7	
	Revision	132.9 GB	
	Capacity	518E91K1104F47E2	
	Type	Fused, SSD	
	Bus Type	NVMe(17)	
	Features		
	Controller	Nvidia tegras (NVIDIA) Controller at bus 5, device 0, function 0	
	Link Speed	PCI-E 4x @ 8.0 GT/s	
	Volume	C:\, 232.2 GiBytes (38.8 percent available)	
	USB Devices		
USB Device			Dispositive USB components, class=0x03, subclass=0x00, vendor=0xc138b, product=0xc12aa
USB Device			Dispositive USB components, class=0x03, subclass=0x00, vendor=0xc1316, product=0xc0317
USB Device			Dispositive USB components, class=0x07, subclass=0x02, vendor=0xdca5e, product=0xd2f4a
USB Device			Camera, Bluetooth Adapter, class=0x03, subclass=0x21, vendor=0xda5c, product=0xc0311
USB Device			Real USB generic, class=0x03, subclass=0x00, vendor=0x0aba, product=0xc411
USB Device			Dispositive of input USB, class=0x03, subclass=0x00, vendor=0xb05, product=0xc1882
USB Device			Dispositive USB components, class=0x03, subclass=0x21, vendor=0xc460, product=0xc0313
USB Device			Dispositive of archivation de mesa USB, class=0x03, subclass=0x00, vendor=0x2558, product=0xc0327
Graphics			
Number of adapters			2
Graphic APIs			
API		D3D	
API		NVIDIA VD	
API		NVIDIA NVML	
API		NVIDIA NVRTC	
API	prebuilt preFabs		
API		[DF 12 EF FF FA 00 00 00 EF F5 00]	
API		Intel UOI	
API		Intel oneapi	
Display Adapters			
Display adapter 0			
ID		0x4000000	
Name	Micro-Star International Co., Ltd. (MSI)	Intel(R) UHD Graphics 630	
Board Manufacturer			
Collname	Coffee Lake G72		
Execution Units		24	
Technology		14 nm	
PCI device	Vendor ID	bus 0 [Bx], device 2 [Bx], function 0 [Bx]	
	Model ID	0x8086 (0x8086)	
	Revision ID	0x9B58 (0x7996)	
Driver version		0A0	
WDDM Model		31.0.101.2121	
		3.1	
Display adapter 1 (primary)			
ID		0x50A0216	
Name	Micro-Star International Co., Ltd. (MSI)	NVIDIA GeForce GTX 1660 Ti	
Board Manufacturer			
Revision		A1	
CardName		TU116-A00	
Core family		0x588 (TU116-A)	
Power Limit		130.0 W (current), 130.0 W (default), 140.0 W (max)	
Thermal Limit		92.0 C (max), 92.0 C (shutdown), 92.0 C (shutdown)	
Cores		48	
RDP units			
TSM Units			
Technology		12 nm	
Memory type		GDDR6 (Micron)	
Memory size		6 GB	
Memory bus width	192 bits		
Current Link Width	X16		
Current Link Speed	8.0 GT/s		
PCI device	Vendor ID	bus 1 [Bx], device [Bx], function [Bx]	
	Model ID	0x0000 (0x0000)	
	Revision ID	0x2B3FA (0x2B3FA)	
Root device		0xA0	
Performance level	Base	bus 0 [Bx], device 1 [Bx], function 0 [Bx]	
Memory clock	Core clock	1000.0 MHz	
Memory clock	Memory clock	600.0 MHz	
Memory clock	Base		
Memory clock	Core clock	1875.0 MHz	
Memory clock	Memory clock	600.0 MHz	
Current	Current	1320.0 MHz	
Memory clock	Core clock	612.0 MHz	
Driver version		31.0.13.3099	
WDDM Model		3.1	
Win32_VideoController	AdapterRAM = 0x40000000 [027341824]		
Win32_VideoController	AdapterRAM = DFF70000 [629394720]		
Win32_VideoController	DriverVersion = 31.0.101.2121		
Win32_VideoController	DriverVersion = 31.0.15.3099		
Win32_VideoController	DriverDate = 10/01/2023		
Win32_VideoController	DriverDate = 08/04/2023		
Monitor 0			
Model ID		XG24AQ1 ()	
Serial		A02483	
Manufacturing Date	Week 35, Year 2020	LBNFM060991	
Max Resolution		1920 x 1080 @ 60 Hz	
Horizontal Fres. Range	255-250 kHz	24.0 inches	
Vertical Fres. Range	48-240 Hz		
Max Pixel Clock		580 Mhz	
Gamma Factor		2.2	
Monitor 1			
Model ID		HP 24e ()	
Serial		HPN13TC	
Manufacturing Date	Week 24, Year 2017	CNR7416Y	
Size		1920 x 1080 @ 60 Hz	
Max Resolution		24.0 inches	
Horizontal Fres. Range	24-80 kHz		
Vertical Fres. Range	50-76 Hz		
Max Pixel Clock		170 Mhz	
Gamma Factor		2.2	
Software			
Windows Version			Microsoft Windows 11 (64-Bit) Professional 64-bit (Build 22H2)
DirectX Version			12.0
Register Spaces			
Register space		PCI	
Register space		PCI #2	
Register space		PCI Express, base address = 0x00200000	
Register space		SMBus, base address = 0x0F040	
Register space		LC, base address = 0x020	
Register space		LC, base address = 0x0C	