

HWiNFO64 v5.54-3200

Creation Time 20.11.2017 19:16

COMPUTER

[Current Computer]

Computer Name:

COMPUTER

Computer Brand Name:

White Brand Company White Brand Product

[Operating System]

Operating System:

Microsoft Windows 10 Enterprise S (x64) Build 14393.1066 (RS1)

UEFI Boot:

Present

Central Processor(s)

[CPU Unit Count]

Number Of Processor Packages (Physical): 1

Number Of Processor Cores: 4

Number Of Logical Processors: 8

Intel Core i7-6700HQ

[General Information]

Processor Name:	Intel Core i7-6700HQ
Original Processor Frequency:	2600.0 MHz
Original Processor Frequency [MHz]:	2600
CPU ID:	000506E3
CPU Brand Name:	Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz
CPU Vendor:	GenuineIntel
CPU Stepping:	R0
CPU Code Name:	Skylake-H
CPU Technology:	14 nm
CPU S-Spec:	SR2FQ
CPU Thermal Design Power (TDP):	45.0 W
CPU Power Limits (Max):	Power = Unlimited, Time = Unlimited
CPU Power Limit 1 - Long Duration:	Power = 200.00 W, Time = 28.00 sec [Unlocked]
CPU Power Limit 2 - Short Duration:	Power = 200.00 W, Time = 2.44 ms [Unlocked]
Configurable TDP Level 1 (Down):	35.00 W (Unlimited range), 2100 MHz
Current Configurable TDP Level:	Nominal [Unlocked]
CPU Type:	Production Unit
CPU Platform:	BGA1440
Microcode Update Revision:	8A
Number of CPU Cores:	4
Number of Logical CPUs:	8

[Operating Points]

CPU MFM (LowPower):	800.0 MHz = 8 x 100.0 MHz
CPU LFM (Minimum):	800.0 MHz = 8 x 100.0 MHz
CPU HFM (Maximum):	2600.0 MHz = 26 x 100.0 MHz
CPU Turbo:	3500.0 MHz = 35 x 100.0 MHz [Unlocked]
CPU Current:	3291.1 MHz = 33 x 99.7 MHz @ 1.1360 V

Ring Maximum:	3500.0 MHz = 35.00 x 100.0 MHz
Ring Current:	3291.1 MHz = 33.00 x 99.7 MHz
System Agent Current:	997.3 MHz = 10.00 x 99.7 MHz
CPU Bus Type:	Intel Direct Media Interface (DMI) v3.0
Maximum DMI Link Speed:	8.0 GT/s
Residency State Regulation (RSR):	Enabled

[IA Overclocking]

Voltage Offset:	Supported
Voltage Override:	Supported
Ratio Overclocking:	Not Supported
Fused Ratio Limit:	35x
Voltage Mode:	Interpolative
Voltage Offset:	0 mV
IccMax:	Unlimited

[GT Overclocking (Slice-EUs)]

Voltage Offset:	Supported
Voltage Override:	Supported
Ratio Overclocking:	Supported
Fused Ratio Limit:	60x
Voltage Mode:	Interpolative
Voltage Offset:	0 mV
IccMax:	20.00 A

[CLR (CBo/LLC/Ring Overclocking)]

Voltage Offset:	Supported
Voltage Override:	Supported
Ratio Overclocking:	Not Supported
Fused Ratio Limit:	35x
Voltage Mode:	Interpolative
Voltage Offset:	0 mV
IccMax:	Unlimited

[GT Overclocking (Unslice-Fixed Functions)]

Voltage Offset:	Supported
Voltage Override:	Supported
Ratio Overclocking:	Supported
Fused Ratio Limit:	60x
Voltage Mode:	Interpolative
Voltage Offset:	0 mV
IccMax:	20.00 A

[Uncore/SA Overclocking]

Voltage Offset:	Supported
Voltage Override:	Not Supported
Ratio Overclocking:	Not Supported
Fused Ratio Limit:	N/A
Voltage Mode:	Interpolative
Voltage Offset:	0 mV
IccMax:	15.00 A

[Cache and TLB]

L1 Cache:	Instruction: 4 x 32 KBytes, Data: 4 x 32 KBytes
L2 Cache:	Integrated: 4 x 256 KBytes
L3 Cache:	6 MBytes
Instruction TLB:	2MB/4MB Pages, Fully associative, 8 entries
Data TLB:	4 KB Pages, 4-way set associative, 64 entries

[Standard Feature Flags]

FPU on Chip	Present
Enhanced Virtual-86 Mode	Present
I/O Breakpoints	Present
Page Size Extensions	Present
Time Stamp Counter	Present
Pentium-style Model Specific Registers	Present
Physical Address Extension	Present
Machine Check Exception	Present

CMPXCHG8B Instruction	Present
APIC On Chip / PGE (AMD)	Present
Fast System Call	Present
Memory Type Range Registers	Present
Page Global Feature	Present
Machine Check Architecture	Present
CMOV Instruction	Present
Page Attribute Table	Present
36-bit Page Size Extensions	Present
Processor Number	Not Present
CLFLUSH Instruction	Present
Debug Trace and EMON Store	Present
Internal ACPI Support	Present
MMX Technology	Present
Fast FP Save/Restore (IA MMX-2)	Present
Streaming SIMD Extensions	Present
Streaming SIMD Extensions 2	Present
Self-Snoop	Present
Multi-Threading Capable	Present
Automatic Clock Control	Present
IA-64 Processor	Not Present
Signal Break on FERR	Present
Virtual Machine Extensions (VMX)	Present
Safer Mode Extensions (Intel TXT)	Not Present
Streaming SIMD Extensions 3	Present
Supplemental Streaming SIMD Extensions 3	Present
Streaming SIMD Extensions 4.1	Present
Streaming SIMD Extensions 4.2	Present
AVX Support	Present
Fused Multiply Add (FMA)	Present
Carryless Multiplication (PCLMULQDQ)/GFMUL	Present
CMPXCHG16B Support	Present
MOVBE Instruction	Present
POPCNT Instruction	Present
XSAVE/XRSTOR/XSETBV/XGETBV Instructions	Present

XGETBV/XSETBV OS Enabled	Present
Float16 Instructions	Present
AES Cryptography Support	Present
Random Number Read Instruction (RDRAND)	Present
Extended xAPIC	Present
MONITOR/MWAIT Support	Present
Thermal Monitor 2	Present
Enhanced SpeedStep Technology	Present
L1 Context ID	Not Present
Send Task Priority Messages Disabling	Present
Processor Context ID	Present
Direct Cache Access	Not Present
TSC-deadline Timer	Present
Performance/Debug Capability MSR	Present
IA32 Debug Interface Support	Present
64-Bit Debug Store	Present
CPL Qualified Debug Store	Present

[Extended Feature Flags]

64-bit Extensions	Present
RDTSCP and TSC_AUX Support	Present
1 GB large page support	Present
No Execute	Present
SYSCALL/SYSRET Support	Present
Bit Manipulation Instructions Set 1	Present
Bit Manipulation Instructions Set 2	Present
Advanced Vector Extensions 2 (AVX2)	Present
Advanced Vector Extensions 512 (AVX-512)	Not Present
AVX-512 Prefetch Instructions	Not Present
AVX-512 Exponential and Reciprocal Instructions	Not Present
AVX-512 Conflict Detection Instructions	Not Present
AVX-512 Doubleword and Quadword Instructions	Not Present
AVX-512 Byte and Word Instructions	Not Present
AVX-512 Vector Length Extensions	Not Present
AVX-512 52-bit Integer FMA Instructions	Not Present
Secure Hash Algorithm (SHA) Extensions	Not Present

Software Guard Extensions (SGX) Support	Present
Supervisor Mode Execution Protection (SMEP)	Present
Supervisor Mode Access Prevention (SMAP)	Present
Hardware Lock Elision (HLE)	Present
Restricted Transactional Memory (RTM)	Present
Memory Protection Extensions (MPX)	Present
Read/Write FS/GS Base Instructions	Present
Enhanced Performance String Instruction	Present
INVPID Instruction	Present
RDSEED Instruction	Present
Multi-precision Add Carry Instructions (ADX)	Present
PCOMMIT Instructions	Not Present
CLFLUSHOPT Instructions	Present
CLWB Instructions	Not Present
TSC_THREAD_OFFSET	Present
Platform Quality of Service Monitoring (PQM)	Not Present
Platform Quality of Service Enforcement (PQE)	Not Present
FPU Data Pointer updated only on x87 Exceptions	Not Present
Deprecated FPU CS and FPU DS	Present
Intel Processor Trace	Present
PREFETCHWT1 Instruction	Not Present
AVX-512 Vector Bit Manipulation Instructions	Not Present
User-Mode Instruction Prevention	Not Present
Protection Keys for User-mode Pages	Not Present
OS Enabled Protection Keys	Not Present
AVX-512 VPOPCNTD/VPOPCNTQ Instructions	Not Present
Read Processor ID	Not Present
SGX Launch Configuration	Not Present
AVX-512 Deep Learning Enhanced Word Variable Precision	Not Present
AVX-512 Deep Learning Floating-point Single Precision	Not Present

[Enhanced Features]

Thermal Monitor 1:	Supported, Enabled
Thermal Monitor 2:	Supported, Enabled

Enhanced Intel SpeedStep (GV3):	Supported, Enabled
Bi-directional PROCHOT#:	Enabled
Extended Auto-HALT State C1E:	Enabled
MLC Streamer Prefetcher	Supported, Enabled
MLC Spatial Prefetcher	Supported, Enabled
DCU Streamer Prefetcher	Supported, Enabled
DCU IP Prefetcher	Supported, Enabled
Intel Dynamic Acceleration (IDA) Technology:	Not Supported
Intel Dynamic FSB Switching:	Not Supported
Intel Turbo Boost Technology:	Supported, Enabled
Programmable Ratio Limits:	Supported, Disabled
Programmable TDC/TDP Limits:	Supported, Disabled

[CPU SKU Features]

Display HD Audio:	Supported
DMI x4:	Supported
DRAM ECC:	Not Supported
DMI in Gen2 Mode:	Supported
PEG in Gen2 Mode:	Supported
1N Mode DDR Timings:	Supported
2 DIMMs per Channel:	Supported
X2APIC:	Supported
Dual Memory Channel:	Supported
Integrated GPU:	Disabled
DDR Overclocking:	Enabled
Overclocking by DSKU:	Disabled
DDR3L:	Supported
Maximum Memory Size per Channel:	32 GB (unlimited)
DDR Frequency Support (100 MHz RefClk):	1300 MHz
Overclocking:	Disabled
Additive Graphics:	Supported
Additive Graphics:	Enabled
PCIe Gen 3:	Supported
DMI Gen 3:	Supported

DDR4:	Supported
LPDDR3:	Supported
BCLK OC Limit:	100 MHz
Maximum Supported LPDDR3 Frequency:	1067 MHz
Maximum Supported DDR4 Frequency:	1067 MHz

[Memory Ranges]

Maximum Physical Address Size:	39-bit (512 GBytes)
Maximum Virtual Address Size:	48-bit (256 TBytes)

[MTRRs]

Range C0000000-100000000 (3072MB-4096MB) Type:	Uncacheable (UC)
Range A0000000-C0000000 (2560MB-3072MB) Type:	Uncacheable (UC)
Range 90000000-A0000000 (2304MB-2560MB) Type:	Uncacheable (UC)

Motherboard

[Computer]

Computer Brand Name:	White Brand Company White Brand Product
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[Motherboard]

Motherboard Model:	White Brand Company MS-1785
Motherboard Chipset:	Intel HM170 (Skylake PCH-H)
Motherboard Slots:	4xPCI Express x1, 1xPCI Express x2, 1xPCI Express x4, 1xPCI Express x16
PCI Express Version Supported:	v3.0
USB Version Supported:	v3.0

[BIOS]

BIOS Manufacturer:	American Megatrends Inc.
BIOS Date:	08/17/2016
BIOS Version:	E1785ID6.10D

UEFI BIOS:	Capable
Super-IO/LPC Chip:	Unknown

ACPI Devices

Radio Switch Device

Device Name:	Radio Switch Device
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[Assigned Resources]

Memory Location:	FC0008DB - FC0008DC
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[Alternative 1]

Memory Location:	FC0008DB - FC0008DC
Memory Location:	FC000000 - FC0008DA
Memory Location:	FC0008DD - FC00FFFF

Legacy device

Device Name:	Legacy device
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[Assigned Resources]

Memory Location: FF000000 - FFFFFFFF

[Alternative 1]

Memory Location: FF000000 - FFFFFFFF

Motherboard resources

Device Name: Motherboard resources

[Assigned Resources]

I/O Port: 1854 - 1857

[Alternative 1]

I/O Port: 1854 - 1857

Trusted Platform Module 2.0

Device Name: Trusted Platform Module 2.0

[Assigned Resources]

Memory Location: FED40000 - FED4087F

[Alternative 1]

Memory Location: FED40000 - FED4087F

Standard PS/2 Keyboard

Device Name:	Standard PS/2 Keyboard
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[Assigned Resources]

I/O Port:	0060
I/O Port:	0000

[Alternative 1]

I/O Port:	0060
I/O Port:	0064
IRQ:	1

Programmable interrupt controller

Device Name:	Programmable interrupt controller
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[Assigned Resources]

I/O Port:	0020 - 0021
I/O Port:	0030 - 0031
I/O Port:	00A0 - 00A1
I/O Port:	00B0 - 00B1
IRQ:	1114369
IRQ:	1114369
IRQ:	1114369
IRQ:	1114369

[Alternative 1]

I/O Port:	0020 - 0021
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I/O Port:	0024 - 0025
I/O Port:	0028 - 0029
I/O Port:	002C - 002D
I/O Port:	0030 - 0031
I/O Port:	0034 - 0035
I/O Port:	0038 - 0039
I/O Port:	003C - 003D
I/O Port:	00A0 - 00A1
I/O Port:	00A4 - 00A5
I/O Port:	00A8 - 00A9
I/O Port:	00AC - 00AD
I/O Port:	00B0 - 00B1
I/O Port:	00B4 - 00B5
I/O Port:	00B8 - 00B9
I/O Port:	00BC - 00BD
I/O Port:	04D0 - 04D1

System timer

Device Name:	System timer
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[Assigned Resources]

I/O Port:	0040 - 0043
DMA:	0

[Alternative 1]

I/O Port:	0040 - 0043
I/O Port:	0050 - 0053
IRQ:	0

High precision event timer

Device Name: High precision event timer

[Assigned Resources]

Memory Location: FED00000 - FED003FF

[Alternative 1]

Memory Location: FED00000 - FED003FF

PCI Express Root Complex

Device Name: PCI Express Root Complex

[Assigned Resources]

I/O Port: 0000 - FFFFFFFF
Memory Location: 000A0000 - 000BFFFF
Memory Location: 000C4000 - 000C3FFF
Memory Location: 000CC000 - 000CFFFF
Memory Location: 000D4000 - 000D3FFF
Memory Location: 000DC000 - 000DFFFF
Memory Location: 000E4000 - 000E3FFF
Memory Location: 000EC000 - 000EFFFF

[Alternative 1]

I/O Port: 0000 - 0CF7

I/O Port:	0D00 - FFFF
Memory Location:	000A0000 - 000BFFFF
Memory Location:	000C0000 - 000C3FFF
Memory Location:	000C4000 - 000C7FFF
Memory Location:	000C8000 - 000CBFFF
Memory Location:	000CC000 - 000CFFFF
Memory Location:	000D0000 - 000D3FFF
Memory Location:	000D4000 - 000D7FFF
Memory Location:	000D8000 - 000DBFFF
Memory Location:	000DC000 - 000DFFFF
Memory Location:	000E0000 - 000E3FFF
Memory Location:	000E4000 - 000E7FFF
Memory Location:	000E8000 - 000EBFFF
Memory Location:	000EC000 - 000EFFFF
Memory Location:	000F0000 - 000FFFFF
Memory Location:	90000000 - DFFFFFFF
Memory Location:	FD000000 - FE7FFFFFFF
Memory Location:	FC000000 - FC00FFFF

System CMOS/real time clock

Device Name:	System CMOS/real time clock
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[Assigned Resources]

I/O Port:	0070 - 0077
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[Alternative 1]

I/O Port:	0070 - 0077
IRQ:	8

Motherboard resources

Device Name: Motherboard resources

[Assigned Resources]

Memory Location: FED10000 - FED17FFF
Memory Location: FED20000 - FED3FFFF

[Alternative 1]

Memory Location: FED10000 - FED17FFF
Memory Location: FED18000 - FED18FFF
Memory Location: FED19000 - FED19FFF
Memory Location: E0000000 - EFFFFFFF
Memory Location: FED20000 - FED3FFFF
Memory Location: FED90000 - FED93FFF
Memory Location: FED45000 - FED8FFFF
Memory Location: FF000000 - FFFFFFFF
Memory Location: FEE00000 - FEEFFFFFFF
Memory Location: DFFE0000 - DFFFFFFF

Motherboard resources

Device Name: Motherboard resources

[Assigned Resources]

I/O Port: 002E - 002F

I/O Port:	0065
I/O Port:	0000 - 006F
I/O Port:	0092
I/O Port:	FFFF
IRQ:	1114369
IRQ:	1114369

[Alternative 1]

I/O Port:	002E - 002F
I/O Port:	004E - 004F
I/O Port:	0061
I/O Port:	0063
I/O Port:	0065
I/O Port:	0067
I/O Port:	0070
I/O Port:	0080
I/O Port:	0092
I/O Port:	00B2 - 00B3
I/O Port:	0680 - 069F
I/O Port:	FFFF
I/O Port:	FFFF
I/O Port:	FFFF
I/O Port:	1800 - 18FE
I/O Port:	164E - 164F

Motherboard resources

Device Name:	Motherboard resources
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[Assigned Resources]

Memory Location:	FDAF0000 - FDAFFFFFFF
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[Alternative 1]

Memory Location:	FDAF0000 - FDAFFFFFFF
Memory Location:	FDAE0000 - FDAFFFFFFF
Memory Location:	FDAC0000 - FDACFFFF
IRQ:	14

Motherboard resources

Device Name:	Motherboard resources
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[Assigned Resources]

I/O Port:	FF00 - FFFE
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[Alternative 1]

I/O Port:	FF00 - FFFE
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Motherboard resources

Device Name:	Motherboard resources
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[Assigned Resources]

I/O Port:	0800 - 087F
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[Alternative 1]

I/O Port: 0800 - 087F

Motherboard resources

Device Name: Motherboard resources

[Assigned Resources]

Memory Location: FD000000 - FDABFFFF
Memory Location: FE036000 - FE03BFFF

[Alternative 1]

Memory Location: FD000000 - FDABFFFF
Memory Location: FDAD0000 - FDADFFFF
Memory Location: FDB00000 - FFFFFFFF
Memory Location: FE000000 - FE01FFFF
Memory Location: FE036000 - FE03BFFF
Memory Location: FE03D000 - FE3FFFFFFF
Memory Location: FE410000 - FE7FFFFFFF

Numeric data processor

Device Name: Numeric data processor

[Assigned Resources]

I/O Port: 00F0

[Alternative 1]

I/O Port:	00F0
IRQ:	13

Microsoft ACPI-Compliant Embedded Controller

Device Name:	Microsoft ACPI-Compliant Embedded Controller
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[Assigned Resources]

I/O Port:	0062
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[Alternative 1]

I/O Port:	0062
I/O Port:	0066

Synaptics PS/2 Port TouchPad

Device Name:	Synaptics PS/2 Port TouchPad
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[Assigned Resources]

IRQ:	12
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[Alternative 1]

IRQ:	12
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SMBIOS DMI

OEM Strings

\$BIOSE1110000000000000200

BIOS

BIOS Vendor:	American Megatrends Inc.
BIOS Version:	E1785ID6.10D
BIOS Release Date:	08/17/2016
BIOS Start Segment:	F000
BIOS Size:	6144 KBytes

System BIOS Version:	1.13
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ISA Support:	Not Present
MCA Support:	Not Present
EISA Support:	Not Present
PCI Support:	Present
PC Card (PCMCIA) Support:	Not Present
Plug-and-Play Support:	Not Present
APM Support:	Not Present

Flash BIOS:	Present
BIOS Shadow:	Present
VL-VESA Support:	Not Present
ESCD Support:	Not Present
Boot from CD:	Present
Selectable Boot:	Present
BIOS ROM Socketed:	Not Present
Boot from PC Card:	Not Present
EDD Support:	Present
NEC PC-98 Support:	Not Present
ACPI Support:	Present
USB Legacy Support:	Present
AGP Support:	Not Present
I2O Boot Support:	Not Present
LS-120 Boot Support:	Not Present
ATAPI ZIP Drive Boot Support:	Not Present
IEE1394 Boot Support:	Not Present
Smart Battery Support:	Not Present
BIOS Boot Specification Support:	Present
Function key-initiated Network Service Boot Support:	Not Present
Targeted Content Distribution Support:	Present
UEFI Specification Support:	Present

System

System Manufacturer:	White Brand Company
Product Name:	White Brand Product
Product Version:	REV:1.0
Product Serial Number:	9S7178522241ZGA000013

SKU Number:	1785.1
Family:	G

Mainboard

Mainboard Manufacturer:	White Brand Company
Mainboard Name:	MS-1785
Mainboard Version:	REV:1.0
Mainboard Serial Number:	BSS-0123456789
Asset Tag:	Default string
Location in chassis:	Default string

System Enclosure

Manufacturer:	White Brand Company
Case Type:	Notebook
Version:	Default string
Serial Number:	Default string
Asset Tag Number:	Default string

On Board Device

Device Description:	To Be Filled By O.E.M.
Device Type:	Video Adapter

Device Status:	Enabled
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System Configuration Options

Default string

System Boot Information

Boot Status:	No error occurred
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Management Device

Device Description:	LM78-1
Device Type:	National Semiconductor LM78
Device Address:	I/O: 0

Voltage Probe

Description:	LM78A
Location:	Motherboard
Status:	OK

Maximum Value:	Unknown
Minimum Value:	Unknown
Resolution:	Unknown
Tolerance:	Unknown
Accuracy:	Unknown

Management Device Threshold Data

Management Device Component

Temperature Probe

Description:	LM78A
Location:	Motherboard
Status:	OK
Maximum Value:	Unknown
Minimum Value:	Unknown
Resolution:	Unknown
Tolerance:	Unknown
Accuracy:	Unknown

Management Device Threshold Data

Management Device Component

Cooling Device

Type:	Power Supply Fan
Description:	Cooling Dev 1
Status:	OK

Management Device Threshold Data

Management Device Component

Cooling Device

Type:	Power Supply Fan
Description:	Unknown
Status:	OK

Management Device Threshold Data

Management Device Component

Electrical Current Probe

Description:	ABC
Location:	Motherboard
Status:	OK
Maximum Value:	Unknown
Minimum Value:	Unknown
Resolution:	Unknown
Tolerance:	Unknown
Accuracy:	Unknown

Management Device Threshold Data

Management Device Component

Voltage Probe

Description:	LM78A
Location:	Power Unit
Status:	OK
Maximum Value:	Unknown
Minimum Value:	Unknown
Resolution:	Unknown
Tolerance:	Unknown
Accuracy:	Unknown

Temperature Probe

Description:	LM78A
Location:	Power Unit
Status:	OK
Maximum Value:	Unknown

Minimum Value:	Unknown
Resolution:	Unknown
Tolerance:	Unknown
Accuracy:	Unknown

Cooling Device

Type:	Power Supply Fan
Description:	Cooling Dev 1
Status:	OK

Electrical Current Probe

Description:	ABC
Location:	Power Unit
Status:	OK
Maximum Value:	Unknown
Minimum Value:	Unknown
Resolution:	Unknown
Tolerance:	Unknown
Accuracy:	Unknown

System Power Supply

Location:	To Be Filled By O.E.M.
Device Name:	To Be Filled By O.E.M.
Manufacturer:	To Be Filled By O.E.M.
Serial Number:	To Be Filled By O.E.M.
Asset Tag Number:	To Be Filled By O.E.M.
Model Part Number:	To Be Filled By O.E.M.
Revision Level:	To Be Filled By O.E.M.
Power Supply Status:	Present
Power Supply Type:	Switching
Power Status:	OK
Hot replaceable:	No
Unplugged from wall:	No

On Board Device

Device Description:	Onboard IGD
Device Type:	Video Adapter
Device Status:	Enabled

On Board Device

Device Description:	Onboard LAN
Device Type:	Ethernet Adapter
Device Status:	Enabled

On Board Device

Device Description:	Onboard 1394
Device Type:	Unknown
Device Status:	Enabled

L1 Cache

Socket Designation:	L1 Cache
Cache State:	Enabled
Cache Type:	Internal, Data
Cache Scheme:	Write-Back
Supported SRAM Type:	Synchronous
Current SRAM Type:	Synchronous
Cache Speed:	Unknown
Error Correction Type:	Parity
Maximum Cache Size:	128 KBytes
Installed Cache Size:	128 KBytes
Cache Associativity:	8-way Set-Associative

L1 Cache

Socket Designation:	L1 Cache
Cache State:	Enabled

Cache Type:	Internal, Instruction
Cache Scheme:	Write-Back
Supported SRAM Type:	Synchronous
Current SRAM Type:	Synchronous
Cache Speed:	Unknown
Error Correction Type:	Parity
Maximum Cache Size:	128 KBytes
Installed Cache Size:	128 KBytes
Cache Associativity:	8-way Set-Associative

L2 Cache

Socket Designation:	L2 Cache
Cache State:	Enabled
Cache Type:	Internal, Unified
Cache Scheme:	Write-Back
Supported SRAM Type:	Synchronous
Current SRAM Type:	Synchronous
Cache Speed:	Unknown
Error Correction Type:	Single-bit ECC
Maximum Cache Size:	1024 KBytes
Installed Cache Size:	1024 KBytes
Cache Associativity:	4-way Set-Associative

L3 Cache

Socket Designation:	L3 Cache
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Cache State:	Enabled
Cache Type:	Internal, Unified
Cache Scheme:	Write-Back
Supported SRAM Type:	Synchronous
Current SRAM Type:	Synchronous
Cache Speed:	Unknown
Error Correction Type:	Multi-bit ECC
Maximum Cache Size:	6144 KBytes
Installed Cache Size:	6144 KBytes
Cache Associativity:	12-way Set-Associative

Processor

Processor Manufacturer:	Intel(R) Corporation
Processor Version:	Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz
External Clock:	100 MHz
Maximum Clock Supported:	8300 MHz
Current Clock:	2500 MHz
CPU Socket:	Populated
CPU Status:	Enabled
Processor Type:	Central Processor
Processor Voltage:	0.9 V
Processor Upgrade:	Unknown (1)
Socket Designation:	U3E1

Intel AMT

Intel AMT Support:	Not Supported
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Intel vPro

CPU VT-x Support:	Supported
CPU VT-x Status:	Enabled
CPU VT-x2 Support:	Not Supported
CPU VT-x2 Status:	Disabled
CPU TXT Support:	Not Supported
CPU TXT Status:	Disabled
CPU VMX Status:	Enabled
CPU SMX Status:	Disabled
Intel ME Status:	Enabled
Intel OST Firmware Support:	Not Supported
Intel ASF Firmware Support:	Not Supported
Intel AMT Pro Firmware Support:	Not Supported
Intel AMT Basic Firmware Support:	Not Supported
Intel TPM Firmware Support:	Not Supported
Intel Castle Peak Support:	Not Supported
Intel WoX Support:	Not Supported
Intel Virtualization Engine Support:	Not Supported
Intel Anti-Theft Technology Support:	Not Supported
TPM On-board:	Not Supported
Intel Anti-Theft Technology Enrolled:	Not Supported
Intel ME Version:	v11.0, Build 1202, Hotfix 0
BIOS VT-x Support:	Not Supported
BIOS VT-d Support:	Supported
BIOS TXT Support:	Not Supported
BIOS TPM Support:	Not Supported

BIOS ME Support:	Not Supported
BIOS VA Extensions Support:	Supported
Intel AT PBA For Recovery Support:	Not Supported
Intel AT WWAN Support:	Not Supported

Firmware Version Information

Reference Code - CPU	1.9.0.0
uCode Version	0.0.0.138
TXT ACM version	0.5.0.0

Firmware Version Information

Reference Code - ME 11.0	1.9.0.0
MEBx version	11.0.0.5
ME Firmware Version	Consumer SKU

Firmware Version Information

Reference Code - SKL PCH	1.9.0.0
PCH-CRID Status	Disabled
PCH-CRID Original Value	0x31
PCH-CRID New Value	0x31
OPROM - RST - RAID	

SKL PCH H Bx Hsio Version	62.0.0.0
SKL PCH H Dx Hsio Version	52.0.0.0
SKL PCH LP Bx Hsio Version	62.0.0.0
SKL PCH LP Cx Hsio Version	52.0.0.0

Firmware Version Information

Reference Code - SA - System Agent	1.9.0.0
Reference Code - MRC	1.9.0.0
SA - PCIe Version	1.9.0.0
SA-CRID Status	Disabled
SA-CRID Original Value	0x7
SA-CRID New Value	0x7
OPROM - VBIOS	

Firmware Version Information

Lan Phy Version	0.0.0.0
Sensor Firmware Version	
Debug Mode Status	Enabled
Performance Mode Status	Disabled
Debug Use USB(Disabled:Serial)	Disabled
ICC Overclocking Version	0.0.0.0
UNDI Version	
EC FW Version	0.0
GOP Version	
BIOS Guard Version	2.0.0.0

Base EC FW Version
EC-EC Protocol Version
Royal Park Version

BP1.2.2.1_RP01

Group Associations

Group Associations

BIOS Language

en|US|iso8859-1 <Active>
zh|CN|unicode

Memory Devices

Physical Memory Array

Array Location:	System board
Array Use:	System memory
Error Detecting Method:	None
Memory Capacity:	64 GBytes
Memory Devices:	4

Memory Device

Total Width:	0 bits
Data Width:	0 bits
Device Size:	0 MBytes
Device Form Factor:	Unknown
Device Locator:	ChannelA-DIMM0
Bank Locator:	BANK 0
Device Type:	Unknown
Device Type Detail:	
Manufacturer:	Unknown
Serial Number:	Unknown
Part Number:	Unknown
Asset Tag:	Unknown

Memory Device

Total Width:	64 bits
Data Width:	64 bits
Device Size:	16384 MBytes

Device Form Factor:	SODIMM
Device Locator:	ChannelA-DIMM1
Bank Locator:	BANK 1
Device Type:	DDR4
Device Type Detail:	Synchronous
Memory Speed:	2133 MHz
Manufacturer:	Samsung
Serial Number:	16B4109A
Part Number:	M471A2K43BB1-CPB
Asset Tag:	9876543210

Memory Device

Total Width:	0 bits
Data Width:	0 bits
Device Size:	0 MBytes
Device Form Factor:	Unknown
Device Locator:	ChannelB-DIMM0
Bank Locator:	BANK 2
Device Type:	Unknown
Device Type Detail:	
Manufacturer:	Unknown
Serial Number:	Unknown
Part Number:	Unknown
Asset Tag:	Unknown

Memory Device

Total Width:	64 bits
Data Width:	64 bits
Device Size:	16384 MBytes
Device Form Factor:	SODIMM
Device Locator:	ChannelB-DIMM1
Bank Locator:	BANK 3
Device Type:	DDR4
Device Type Detail:	Synchronous
Memory Speed:	2133 MHz
Manufacturer:	Samsung
Serial Number:	16B41097
Part Number:	M471A2K43BB1-CPB
Asset Tag:	9876543210

Memory Array Mapped Address

Starting Address:	00000000
Ending Address:	01FFFFFF
Partition Width:	2

Memory Device Mapped Address

Starting Address:	00000000
Ending Address:	00FFFFFF
Partition Row Position:	Unknown
Interleave Position:	1

Interleave Data Depth: 2

Memory Device Mapped Address

Starting Address:	01000000
Ending Address:	01FFFFFF
Partition Row Position:	Unknown
Interleave Position:	2
Interleave Data Depth:	2

Port Connectors

Mouse Port

Port Type:	Mouse Port
Internal Reference:	J1A1
Internal Connector Type:	None
External Reference:	PS2Mouse
External Connector Type:	PS/2

Keyboard Port

Port Type:	Keyboard Port
Internal Reference:	J1A1
Internal Connector Type:	None
External Reference:	Keyboard
External Connector Type:	PS/2

Port Connector

Port Type:	Unknown
Internal Reference:	J2A1
Internal Connector Type:	None
External Reference:	TV Out
External Connector Type:	Mini-Centronics Type-14

Serial Port 16550A Compatible

Port Type:	Serial Port 16550A Compatible
Internal Reference:	J2A2A
Internal Connector Type:	None
External Reference:	COM A
External Connector Type:	DB-9 pin male

Video Port

Port Type:	Video Port
Internal Reference:	J2A2B
Internal Connector Type:	None
External Reference:	Video
External Connector Type:	DB-15 pin female

USB

Port Type:	USB
Internal Reference:	J3A1
Internal Connector Type:	None
External Reference:	USB1
External Connector Type:	Access Bus (USB)

USB

Port Type:	USB
Internal Reference:	J3A1
Internal Connector Type:	None
External Reference:	USB2
External Connector Type:	Access Bus (USB)

USB

Port Type:	USB
Internal Reference:	J3A1
Internal Connector Type:	None
External Reference:	USB3
External Connector Type:	Access Bus (USB)

Port Connector

Port Type:	Unknown
Internal Reference:	J9A1 - TPM HDR
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J9C1 - PCIE DOCKING CONN
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J2B3 - CPU FAN
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J6C2 - EXT HDMI
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J3C1 - GMCH FAN
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J1D1 - ITP
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J9E2 - MDC INTPSR
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J9E4 - MDC INTPSR
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J9E3 - LPC HOT DOCKING
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J9E1 - SCAN MATRIX
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J9G1 - LPC SIDE BAND
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J8F1 - UNIFIED
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J6F1 - LVDS
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J2F1 - LAI FAN
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J2G1 - GFX VID
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

Port Connector

Port Type:	Unknown
Internal Reference:	J1G6 - AC JACK
Internal Connector Type:	Unknown
External Reference:	Unknown
External Connector Type:	None

System Slots

J6B2

Slot Designation:	J6B2
Slot Type:	PCI Express
Slot Usage:	In use
Slot Data Bus Width:	16x / x16

Slot Length: Long

J6B1

Slot Designation: J6B1
Slot Type: PCI Express
Slot Usage: In use
Slot Data Bus Width: 1x / x1
Slot Length: Short

J6D1

Slot Designation: J6D1
Slot Type: PCI Express
Slot Usage: In use
Slot Data Bus Width: 1x / x1
Slot Length: Short

J7B1

Slot Designation: J7B1
Slot Type: PCI Express
Slot Usage: In use
Slot Data Bus Width: 1x / x1

Slot Length:	Short
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J8B4

Slot Designation:	J8B4
Slot Type:	PCI Express
Slot Usage:	In use
Slot Data Bus Width:	1x / x1
Slot Length:	Short

Intel ME

[ME Host Status]

ME Current Working State:	Normal
Manufacturing Mode:	Not Active
ME Current Operation Mode:	Normal

Boot Guard Status:	Enabled
Boot Guard Verified Boot Policy:	Disabled
Boot Guard Measured Boot Policy:	Disabled

[Intel Manageability Engine Features]

Intel ME Version:	11.0, Build 1202
Intel ME Recovery Image Version:	11.0, Build 1202
Intel ME FITC Version:	11.0, Build 1202

[ME Firmware Capabilities]

Full Network Manageability:	Not Capable
Standard Network Manageability:	Not Capable
Manageability (AMT):	Not Capable
Small Business Advantage:	Not Capable
Intel Integrated Touch:	Not Capable
Intel Anti-Theft:	Not Capable
Capability Licensing Service:	Capable
Virtualization Engine:	Not Capable
Intel Sensor Hub (ISH):	Not Capable
ICC Over Clocking:	Capable
Protected Audio Video Path (PAVP):	Capable
Network Frame Forwarder (NFF):	Not Capable
Remote PC Assist (RPAT):	Not Capable
IPV6:	Not Capable
KVM Remote Control:	Not Capable
Outbreak Containment Heuristic (OCH):	Not Capable
Dynamic Application Loader (DAL):	Capable
Cipher Transport Layer (TLS):	Not Capable
Wireless LAN (WLAN):	Not Capable
Platform Trust Technology (PTT):	Capable
Near Field Communication (NFC):	Not Capable

[ME Firmware Feature State]

Full Network Manageability:	Disabled
Standard Network Manageability:	Disabled
Manageability (AMT):	Disabled
Small Business Advantage:	Not Capable
MEI3:	Not Capable
Intel Anti-Theft:	Disabled
Capability Licensing Service:	Enabled
Virtualization Engine:	Disabled
Intel Sensor Hub (ISH):	Disabled

ICC Over Clocking:	Enabled
Protected Audio Video Path (PAVP):	Enabled
Network Frame Forwarder (NFF):	Not Capable
Remote PC Assist (RPAT):	Disabled
IPV6:	Disabled
KVM Remote Control:	Disabled
Outbreak Containment Heuristic (OCH):	Disabled
Dynamic Application Loader (DAL):	Capable
Cipher Transport Layer (TLS):	Disabled
Wireless LAN (WLAN):	Disabled
Platform Trust Technology (PTT):	Enabled
Near Field Communication (NFC):	Disabled

[ME Firmware Platform Type]

Platform Target Usage Type:	Mobile
SKU:	Regular SKU
ME Firmware Image Type:	Consumer SKU Firmware
Platform Brand:	None

Host ME Region Flash Protection Override (HMRFPO) Status:	Locked
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Memory

[General information]

Total Memory Size:	32 GBytes
Total Memory Size [MB]:	32768

[Current Performance Settings]

Maximum Supported Memory Clock:	1300.0 MHz
Current Memory Clock:	1063.8 MHz
Current Timing (tCAS-tRCD-tRP-tRAS):	15-15-15-36
Memory Runs At:	Dual-Channel

Command Rate:	2T
Read to Read Delay (tRD_RD) Same Rank:	6T
Read to Read Delay (tRD_RD) Different Rank:	4T
Read to Read Delay (tRD_RD) Different DIMM:	7T
Write to Write Delay (tWR_WR) Same Rank:	6T
Write to Write Delay (tWR_WR) Different Rank:	4T
Write to Write Delay (tWR_WR) Different DIMM:	7T
Read to Write Delay (tRD_WR) Same Rank:	9T
Read to Write Delay (tRD_WR) Different Rank:	9T
Read to Write Delay (tRD_WR) Different DIMM:	11T
Write to Read Delay (tWR_RD) Same Rank (tWTR):	27T
Write to Read Delay (tWR_RD) Different Rank:	22T
Write to Read Delay (tWR_RD) Different DIMM:	6T
RAS# to RAS# Delay (tRRD):	6T
Refresh Cycle Time (tRFC):	374T
Four Activate Window (tFAW):	23T

Row: 1 - 16 GB PC4-17000 DDR4 SDRAM Samsung M471A2K43BB1-CPB

[General Module Information]

Module Number:	1
Module Size:	16 GBytes
Memory Type:	DDR4 SDRAM
Module Type:	SO-DIMM

Memory Speed:	1066.1 MHz (DDR4-2132 / PC4-17000)
Module Manufacturer:	Samsung
Module Part Number:	M471A2K43BB1-CPB
Module Revision:	0.0
Module Serial Number:	2584785942
Module Manufacturing Date:	Year: 2016, Week: 38
Module Manufacturing Location:	3
SDRAM Manufacturer:	Samsung
DRAM Steppping:	0.0
Error Check/Correction:	None

[Module Characteristics]

Row Address Bits:	16
Column Address Bits:	10
Module Density:	8192 Mb
Number Of Ranks:	2
Device Width:	8 bits
Bus Width:	64 bits
Die Count:	1
Module Nominal Voltage (VDD):	1.2 V
Minimum SDRAM Cycle Time (tCKAVGmin):	0.93800 ns
Maximum SDRAM Cycle Time (tCKAVGmax):	1.50000 ns
CAS# Latencies Supported:	10, 11, 12, 13, 14, 15, 16
Minimum CAS# Latency Time (tAAmin):	13.750 ns
Minimum RAS# to CAS# Delay (tRCDmin):	13.750 ns
Minimum Row Precharge Time (tRPmin):	13.750 ns
Minimum Active to Precharge Time (tRASmin):	33.000 ns
Supported Module Timing at 1066.1 MHz:	15-15-15-36
Supported Module Timing at 1000.0 MHz:	14-14-14-33
Supported Module Timing at 933.3 MHz:	13-13-13-31
Supported Module Timing at 866.7 MHz:	12-12-12-29

Supported Module Timing at 800.0 MHz:	11-11-11-27
Supported Module Timing at 733.3 MHz:	11-11-11-25
Supported Module Timing at 666.7 MHz:	10-10-10-22

Minimum Active to Active/Refresh Time (tRCmin):	46.750 ns
Minimum Refresh Recovery Time Delay (tRFC1min):	350.000 ns
Minimum Refresh Recovery Time Delay (tRFC2min):	260.000 ns
Minimum Refresh Recovery Time Delay (tRFC4min):	160.000 ns
Minimum Four Activate Window Delay Time (tFAWmin):	21.000 ns
Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.700 ns
Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.300 ns
Minimum CAS to CAS Delay Time - Same Bank Group (tCCD_Lmin):	5.625 ns

[Features]

Module Temperature Sensor (TSOD):	Not Supported
Module Nominal Height:	29 - 30 mm
Module Maximum Thickness (Front):	1 - 2 mm
Module Maximum Thickness (Back):	1 - 2 mm
Address Mapping from Edge Connector to DRAM:	Mirrored

Row: 3 - 16 GB PC4-17000 DDR4 SDRAM Samsung M471A2K43BB1-CPB

[General Module Information]

Module Number:	3
Module Size:	16 GBytes
Memory Type:	DDR4 SDRAM

Module Type:	SO-DIMM
Memory Speed:	1066.1 MHz (DDR4-2132 / PC4-17000)
Module Manufacturer:	Samsung
Module Part Number:	M471A2K43BB1-CPB
Module Revision:	0.0
Module Serial Number:	2534454294
Module Manufacturing Date:	Year: 2016, Week: 38
Module Manufacturing Location:	3
SDRAM Manufacturer:	Samsung
DRAM Stepping:	0.0
Error Check/Correction:	None

[Module Characteristics]

Row Address Bits:	16
Column Address Bits:	10
Module Density:	8192 Mb
Number Of Ranks:	2
Device Width:	8 bits
Bus Width:	64 bits
Die Count:	1
Module Nominal Voltage (VDD):	1.2 V
Minimum SDRAM Cycle Time (tCKAVGmin):	0.93800 ns
Maximum SDRAM Cycle Time (tCKAVGmax):	1.50000 ns
CAS# Latencies Supported:	10, 11, 12, 13, 14, 15, 16
Minimum CAS# Latency Time (tAmin):	13.750 ns
Minimum RAS# to CAS# Delay (tRCDmin):	13.750 ns
Minimum Row Precharge Time (tRPmin):	13.750 ns
Minimum Active to Precharge Time (tRASmin):	33.000 ns
Supported Module Timing at 1066.1 MHz:	15-15-15-36
Supported Module Timing at 1000.0 MHz:	14-14-14-33
Supported Module Timing at 933.3 MHz:	13-13-13-31

Supported Module Timing at 866.7 MHz:	12-12-12-29
Supported Module Timing at 800.0 MHz:	11-11-11-27
Supported Module Timing at 733.3 MHz:	11-11-11-25
Supported Module Timing at 666.7 MHz:	10-10-10-22

Minimum Active to Active/Refresh Time (tRCmin):	46.750 ns
Minimum Refresh Recovery Time Delay (tRFC1min):	350.000 ns
Minimum Refresh Recovery Time Delay (tRFC2min):	260.000 ns
Minimum Refresh Recovery Time Delay (tRFC4min):	160.000 ns
Minimum Four Activate Window Delay Time (tFAWmin):	21.000 ns
Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.700 ns
Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.300 ns
Minimum CAS to CAS Delay Time - Same Bank Group (tCCD_Lmin):	5.625 ns

[Features]

Module Temperature Sensor (TSOD):	Not Supported
Module Nominal Height:	29 - 30 mm
Module Maximum Thickness (Front):	1 - 2 mm
Module Maximum Thickness (Back):	1 - 2 mm
Address Mapping from Edge Connector to DRAM:	Mirrored

Bus

PCI Bus #0

Intel Skylake-H - Host Bridge/DRAM Controller [R0]

[General Information]

Device Name:	Intel Skylake-H - Host Bridge/DRAM Controller [R0]
Original Device Name:	Intel Skylake-H - Host Bridge/DRAM Controller [R0]
Device Class:	Host-to-PCI Bridge
Revision ID:	7 [R0]
PCI Address (Bus:Device:Function) Number:	0:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_1910&SUBSYS_11AF1462&REV_07

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	N/A

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) Xeon(R) E3 - 1200/1500 v5/6th Gen Intel(R) Core(TM) Host Bridge/DRAM Registers - 1910
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016

DeviceInstanceId

PCI\VEN_8086&DEV_1910&SUBSYS_11AF1462&REV_07\3&11583659&0&00

Intel Skylake - PCI Express x16 Controller [R0]

[General Information]

Device Name:	Intel Skylake - PCI Express x16 Controller [R0]
Original Device Name:	Intel Skylake - PCI Express x16 Controller [R0]
Device Class:	PCI-to-PCI Bridge
Revision ID:	7 [R0]
PCI Address (Bus:Device:Function) Number:	0:1:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_1901&SUBSYS_00000000&REV_07

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Root Port of PCI Express Root Complex
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	75.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L0s and L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	128 - 256 ns
L1 Exit Latency:	4 - 8 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) Xeon(R) E3 - 1200/1500 v5/6th Gen Intel(R) Core(TM) PCIe Controller (x16) - 1901
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_8086&DEV_1901&SUBSYS_11AF1462&REV_07\3&11583659&0&08

PCI Express x16 Bus #1

NVIDIA GeForce GTX 1070 [MSI]

[General Information]

Device Name:	NVIDIA GeForce GTX 1070 [MSI]
Original Device Name:	NVIDIA GeForce GTX 1070 (GP104M)
Device Class:	VGA Compatible Adapter

Revision ID:	A1
PCI Address (Bus:Device:Function) Number:	1:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_10DE&DEV_1BE1&SUBSYS_11AF1462&REV_A1

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Legacy PCI Express Endpoint
Slot Implemented:	No
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L0s and L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	256 - 512 ns
L1 Exit Latency:	8 - 16 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	DE000000
Memory Base Address 1	C0000000
Memory Base Address 3	D0000000
I/O Base Address 5	E000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	NVIDIA
Driver Description:	NVIDIA GeForce GTX 1070
Driver Provider:	NVIDIA
Driver Version:	22.21.13.8494
Driver Date:	18-Jul-2017
DeviceInstanceId	PCI\VEN_10DE&DEV_1BE1&SUBSYS_11AF1462&REV_A1\4&11468B0&0&0008

NVIDIA GP104 - High Definition Audio Controller

[General Information]

Device Name:	NVIDIA GP104 - High Definition Audio Controller
Original Device Name:	NVIDIA GP104 - High Definition Audio Controller
Device Class:	Mixed mode device
Revision ID:	A1
PCI Address (Bus:Device:Function) Number:	1:0:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_10DE&DEV_10F0&SUBSYS_11AF1462&REV_A1

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	PCI Express Endpoint
Slot Implemented:	No
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L0s and L1
Active State Power Management (ASPM) Status:	L0s and L1 Entry

L0s Exit Latency:	256 - 512 ns
L1 Exit Latency:	2 - 4 us

[System Resources]

Interrupt Line:	IRQ17
Interrupt Pin:	INTB#
Memory Base Address 0	DF0FC000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	Microsoft
Driver Description:	High Definition Audio (Microsoft)
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	15-Jul-2016
DeviceInstanceId	PCI\VEN_10DE&DEV_10F0&SUBSYS_11AF1462&REV_A1\4&11468B0&0&0108

Intel Skylake PCH-H - USB 3.0 xHCI Controller [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - USB 3.0 xHCI Controller [D1]
Original Device Name:	Intel Skylake PCH-H - USB 3.0 xHCI Controller [D1]
Device Class:	USB xHCI Controller
Revision ID:	31 [D1]
PCI Address (Bus:Device:Function) Number:	0:20:0
PCI Latency Timer:	0

Hardware ID: PCI\VEN_8086&DEV_A12F&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line: N/A
Interrupt Pin: INTA#
Memory Base Address 0 DF610000

[Features]

Bus Mastering: Enabled
Running At 66 MHz: Not Capable
Fast Back-to-Back Transactions: Capable

USB Version Supported: 3.0

[Driver Information]

Driver Manufacturer: Óíèääðñàëüíúé õíñò-éííòðíëëää USB xHCI
Driver Description: xHCI-ñîâîñòèìúé õíñò-éííòðíëëää USB
Driver Provider: Microsoft
Driver Version: 10.0.14393.0
Driver Date: 15-Jul-2016
DeviceInstanceId: PCI\VEN_8086&DEV_A12F&SUBSYS_11AF1462&REV_31\3&11583659&0&A0

USB Root Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port5] : No Device Connected

[Port6] : No Device Connected

[Port7] : USB-óñòďíéñòâî ââîäà

[Device Information]

Device Manufacturer:	precisionWave
Product Name:	-
Serial Number:	-
USB Version Supported:	1.10
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-óñòðíéñòâî ââîâà
Hardware ID:	USB\VID_1770&PID_FF00

[Driver Information]

Driver Manufacturer:	(Ñòàíäàðòíúâ ñèñòâííúâ óñòðíéñòâà)
Driver Description:	USB-óñòðíéñòâî ââîâà
Driver Provider:	Microsoft
Driver Version:	10.0.14393.351
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1770&PID_FF00\MSI_EPF_USB

[Port8] : No Device Connected

[Port9] : Ñîñòââííâ USB óñòðíéñòâî

[Device Information]

Device Manufacturer:	Razer
Product Name:	Razer Imperator
Serial Number:	N/A

USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	Ńîñòàâîîă USB óñòðíéñòâî
Hardware ID:	USB\VID_1532&PID_002F

[Driver Information]

Driver Manufacturer:	(Ńòàíäàðòíúé USB òîñò-éíòðíéëääð)
Driver Description:	Ńîñòàâîîă USB óñòðíéñòâî
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1532&PID_002F\5&374E260D&0&9

[Port10] : Intel(R) Wireless Bluetooth(R)

[Device Information]

Device Manufacturer:	Intel
Product Name:	-
Serial Number:	-
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	Intel(R) Wireless Bluetooth(R)
Hardware ID:	USB\VID_8087&PID_0A2B

[Driver Information]

Driver Manufacturer:	Intel Corporation
Driver Description:	Intel(R) Wireless Bluetooth(R)
Driver Provider:	Intel Corporation
Driver Version:	19.50.0.5

Driver Date:	21-Feb-2017
DeviceInstanceId	USB\VID_8087&PID_0A2B\5&374E260D&0&10

[Port11] : Níñòàáířă USB óñòđíéñòâî

[Device Information]

Device Manufacturer:	Chicony
Product Name:	-
Serial Number:	-
USB Version Supported:	2.00
USB Device Speed:	USB 2.0 High-speed
Driver Description:	Níñòàáířă USB óñòđíéñòâî
Hardware ID:	USB\VID_04F2&PID_B536

[Driver Information]

Driver Manufacturer:	(Níòàíăăđòíúé USB ôíñò-êířòđíëěăđ)
Driver Description:	Níñòàáířă USB óñòđíéñòâî
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_04F2&PID_B536\5&374E260D&0&11

[Port12] : No Device Connected

[Port13] : No Device Connected

[Port14] : No Device Connected

[Port15] : No Device Connected

[Port16] : No Device Connected

[Port17] : Çàïïèìàpùåå óñòðíéñòâî äëÿ USB

[Device Information]

Device Manufacturer:	JetFlash
Product Name:	Mass Storage Device
Serial Number:	07BF76GWEARI1WSO
USB Version Supported:	3.00
USB Device Speed:	USB 3.0 SuperSpeed
Driver Description:	Çàïïèìàpùåå óñòðíéñòâî äëÿ USB
Hardware ID:	USB\VID_8564&PID_1000

[Driver Information]

Driver Manufacturer:	USB-ñîîîîñòèîî çàîîîèàòùââ óñòðîéñòâî
Driver Description:	Çàîîîèàòùââ óñòðîéñòâî äëý USB
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_8564&PID_1000\07BF76GWEARI1WSO

[Port18] : No Device Connected

[Port19] : No Device Connected

[Port20] : No Device Connected

[Port21] : No Device Connected

[Port22] : No Device Connected

[Port23] : No Device Connected

[Port24] : No Device Connected

Intel Skylake PCH-H - Thermal Subsystem [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - Thermal Subsystem [D1]
Original Device Name:	Intel Skylake PCH-H - Thermal Subsystem [D1]
Device Class:	Unknown Data Acquisition/Signal Processing Controller
Revision ID:	31 [D1]
PCI Address (Bus:Device:Function) Number:	0:20:2
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A131&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTC#

Memory Base Address 0	DF62E000
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[Features]

Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family Thermal subsystem - A131
Driver Provider:	INTEL
Driver Version:	10.1.1.13
Driver Date:	28-Oct-2015
DeviceInstanceId	PCI\VEN_8086&DEV_A131&SUBSYS_11AF1462&REV_31\3&11583659&0&A2

Intel Skylake PCH-H - CSME: HECI #1 [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - CSME: HECI #1 [D1]
Original Device Name:	Intel Skylake PCH-H - CSME: HECI #1 [D1]
Device Class:	Unknown Communication Device
Revision ID:	31 [D1]
PCI Address (Bus:Device:Function) Number:	0:22:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A13A&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	FE03C000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	Intel
Driver Description:	Intel(R) Management Engine Interface
Driver Provider:	Intel
Driver Version:	11.6.0.1042
Driver Date:	16-Nov-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A13A&SUBSYS_11AF1462&REV_31\3&11583659&0&B0

Intel Skylake PCH-H MB - SATA AHCI Controller [D1]

[General Information]

Device Name:	Intel Skylake PCH-H MB - SATA AHCI Controller [D1]
Original Device Name:	Intel Skylake PCH-H MB - SATA AHCI Controller [D1]
Device Class:	SATA AHCI Controller
Revision ID:	31 [D1]
PCI Address (Bus:Device:Function) Number:	0:23:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A103&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	DF628000
Memory Base Address 1	DF62C000

I/O Base Address 2	F050
I/O Base Address 3	F040
I/O Base Address 4	F020
Memory Base Address 5	DF62B000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Capable
Fast Back-to-Back Transactions:	Capable

[SATA Host Controller]

Interface Speed Supported:	Gen3 6.0 Gbps
Number Of Ports:	2
External SATA Support:	Not Capable
Aggressive Link Power Management:	Capable
Staggered Spin-up:	Not Capable
Mechanical Presence Switch:	Not Capable
Command Queue Acceleration:	Capable
64-bit Addressing:	Capable
AHCI Status:	Enabled
AHCI Version:	1.31
Ports Implemented:	2, 3

[SATA Port#2]

Port Status:	Device Present, Phy communication not established
Current Interface Speed:	Gen1 1.5 Gbps
External SATA Port:	Not Capable
Hot Plug:	Not Capable
Device Type:	ATAPI

[SATA Port#3]

Port Status:	Device Present, Phy communication not established
Current Interface Speed:	Gen3 6.0 Gbps
External SATA Port:	Not Capable

Hot Plug:	Not Capable
Device Type:	SATA

[Driver Information]

Driver Manufacturer:	Intel Corporation
Driver Description:	Intel(R) 100 Series/C230 Chipset Family SATA AHCI Controller
Driver Provider:	Intel Corporation
Driver Version:	14.7.0.1000
Driver Date:	15-Sep-2015
DeviceInstanceId	PCI\VEN_8086&DEV_A103&SUBSYS_11AF1462&REV_31\3&11583659&0&B8

Intel Skylake PCH-H - PCI Express Root Port #3 [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - PCI Express Root Port #3 [D1]
Original Device Name:	Intel Skylake PCH-H - PCI Express Root Port #3 [D1]
Device Class:	PCI-to-PCI Bridge
Revision ID:	F1 [D1]
PCI Address (Bus:Device:Function) Number:	0:28:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A112&SUBSYS_00000000&REV_F1

[PCI Express]

Version:	3.0
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Root Port of PCI Express Root Complex
Slot Implemented:	Yes

Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	10.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	None
Active State Power Management (ASPM) Status:	L1 Entry
L0s Exit Latency:	512 ns - 1 us
L1 Exit Latency:	8 - 16 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTC#

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family PCI Express Root Port #3 - A112
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A112&SUBSYS_11AF1462&REV_F1\3&11583659&0&E0

PCI Express x1 Bus #2

RealTek Semiconductor RTS5249 PCI-E Card Reader

[General Information]

Device Name:	RealTek Semiconductor RTS5249 PCI-E Card Reader
Original Device Name:	RealTek Semiconductor RTS5249 PCI-E Card Reader
Device Class:	Unknown
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	2:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_10EC&DEV_5249&SUBSYS_11AF1462&REV_01

[PCI Express]

Version:	1.1
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	2.5 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	PCI Express Endpoint
Slot Implemented:	No
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L0s and L1
Active State Power Management (ASPM) Status:	L1 Entry
L0s Exit Latency:	>4 us
L1 Exit Latency:	32 - 64 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	DF5FF000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	Realtek Semiconduct Corp.
Driver Description:	Realtek PCIE CardReader
Driver Provider:	Realtek Semiconduct Corp.
Driver Version:	10.0.10240.21284
Driver Date:	13-Nov-2015
DeviceInstanceId	PCI\VEN_10EC&DEV_5249&SUBSYS_11AF1462&REV_01\000000001004CE00000

Intel Skylake PCH-H - PCI Express Root Port #4 [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - PCI Express Root Port #4 [D1]
Original Device Name:	Intel Skylake PCH-H - PCI Express Root Port #4 [D1]
Device Class:	PCI-to-PCI Bridge
Revision ID:	F1 [D1]
PCI Address (Bus:Device:Function) Number:	0:28:3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A113&SUBSYS_00000000&REV_F1

[PCI Express]

Version:	3.0
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	2.5 GT/s

Device/Port Type:	Root Port of PCI Express Root Complex
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	10.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	None
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	512 ns - 1 us
L1 Exit Latency:	8 - 16 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTD#

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family PCI Express Root Port #4 - A113
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A113&SUBSYS_11AF1462&REV_F1\3&11583659&0&E3

PCI Express x1 Bus #3

Qualcomm/Atheros e2400 PCI-E Gigabit Ethernet Controller

[General Information]

Device Name:	Qualcomm/Atheros e2400 PCI-E Gigabit Ethernet Controller
Original Device Name:	Qualcomm/Atheros e2400 PCI-E Gigabit Ethernet Controller
Device Class:	Ethernet Adapter
Revision ID:	10
PCI Address (Bus:Device:Function) Number:	3:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1969&DEV_E0A1&SUBSYS_11AF1462&REV_10

[PCI Express]

Version:	1.1
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	2.5 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	PCI Express Endpoint
Slot Implemented:	No
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L0s and L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	>4 us
L1 Exit Latency:	>64 us

[System Resources]

Interrupt Line:	IRQ19
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Interrupt Pin:	INTA#
Memory Base Address 0	DF400000
I/O Base Address 2	D000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	Rivet Networks
Driver Description:	Killer E2400 Gigabit Ethernet Controller
Driver Provider:	Rivet Networks
Driver Version:	9.0.0.37
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_1969&DEV_E0A1&SUBSYS_11AF1462&REV_10\FF821BE44CCC6AFF00

Intel Skylake PCH-H - PCI Express Root Port #5 [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - PCI Express Root Port #5 [D1]
Original Device Name:	Intel Skylake PCH-H - PCI Express Root Port #5 [D1]
Device Class:	PCI-to-PCI Bridge
Revision ID:	F1 [D1]
PCI Address (Bus:Device:Function) Number:	0:28:4
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A114&SUBSYS_00000000&REV_F1

[PCI Express]

Version:	3.0
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Maximum Link Width:	2x
Current Link Width:	2x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	5.0 GT/s
Device/Port Type:	Root Port of PCI Express Root Complex
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	25.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	L1 Entry
L0s Exit Latency:	512 ns - 1 us
L1 Exit Latency:	8 - 16 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family PCI Express Root Port #5 - A114
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A114&SUBSYS_11AF1462&REV_F1\3&11583659&0&E4

PCI Express x2 Bus #4

ASMedia ASM1142 USB 3.1 xHCI Controller

[General Information]

Device Name:	ASMedia ASM1142 USB 3.1 xHCI Controller
Original Device Name:	ASMedia ASM1142 USB 3.1 xHCI Controller
Device Class:	USB xHCI Controller
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	4:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1B21&DEV_1242&SUBSYS_11AF1462&REV_00

[PCI Express]

Version:	2.0
Maximum Link Width:	2x
Current Link Width:	2x
Maximum Link Speed:	5.0 GT/s
Current Link Speed:	5.0 GT/s
Device/Port Type:	PCI Express Endpoint
Slot Implemented:	No
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	L1 Entry
L0s Exit Latency:	1 - 2 us

L1 Exit Latency: >64 us

[System Resources]

Interrupt Line: N/A
Interrupt Pin: INTA#
Memory Base Address 0 DF300000

[Features]

Bus Mastering: Enabled
Running At 66 MHz: Not Capable
Fast Back-to-Back Transactions: Not Capable

USB Version Supported: 3.0

[Driver Information]

Driver Manufacturer: ASMedia Technology Inc
Driver Description: ASMedia USB3.1 eXtensible Host Controller
Driver Provider: ASMedia Technology Inc
Driver Version: 1.16.35.1
Driver Date: 11-Apr-2016
DeviceInstanceId PCI\VEN_1B21&DEV_1242&SUBSYS_11AF1462&REV_00\4&F61937A&0&00E4

USB Root Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

Intel Skylake PCH-H - PCI Express Root Port #7 [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - PCI Express Root Port #7 [D1]
Original Device Name:	Intel Skylake PCH-H - PCI Express Root Port #7 [D1]
Device Class:	PCI-to-PCI Bridge
Revision ID:	F1 [D1]
PCI Address (Bus:Device:Function) Number:	0:28:6
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A116&SUBSYS_00000000&REV_F1

[PCI Express]

Version:	3.0
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Root Port of PCI Express Root Complex
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	10.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	None
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	512 ns - 1 us
L1 Exit Latency:	8 - 16 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTC#

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family PCI Express Root Port #7 - A116
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016

DeviceInstanceId

PCI\VEN_8086&DEV_A116&SUBSYS_11AF1462&REV_F1\3&11583659&0&E6

PCI Express x1 Bus #5

Intel Dual Band Wireless-AC 8260 AC 2x2 HMC WiFi Adapter

[General Information]

Device Name:	Intel Dual Band Wireless-AC 8260 AC 2x2 HMC WiFi Adapter
Original Device Name:	Intel 8260 Tri-Band WiFi (Douglas Peak) Network Adapter
Device Class:	Unknown Network Adapter
Revision ID:	3A
PCI Address (Bus:Device:Function) Number:	5:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_24F3&SUBSYS_10108086&REV_3A

[PCI Express]

Version:	1.1
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	2.5 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	PCI Express Endpoint
Slot Implemented:	No
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	Disabled

L0s Exit Latency:	2 - 4 us
L1 Exit Latency:	4 - 8 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	DF2FE000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	Intel Corporation
Driver Description:	Intel(R) Dual Band Wireless-AC 8260
Driver Provider:	Intel
Driver Version:	19.40.0.3
Driver Date:	15-Jan-2017
DeviceInstanceId	PCI\VEN_8086&DEV_24F3&SUBSYS_10108086&REV_3A\B88A60FFFC3D02A00

Intel Skylake PCH-H - PCI Express Root Port #9 [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - PCI Express Root Port #9 [D1]
Original Device Name:	Intel Skylake PCH-H - PCI Express Root Port #9 [D1]
Device Class:	PCI-to-PCI Bridge
Revision ID:	F1 [D1]
PCI Address (Bus:Device:Function) Number:	0:29:0
PCI Latency Timer:	0

Hardware ID:

PCI\VEN_8086&DEV_A118&SUBSYS_00000000&REV_F1

[PCI Express]

Version:	3.0
Maximum Link Width:	4x
Current Link Width:	4x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	8.0 GT/s
Device/Port Type:	Root Port of PCI Express Root Complex
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	25.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	None
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	512 ns - 1 us
L1 Exit Latency:	8 - 16 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family PCI Express Root Port #9 - A118

Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A118&SUBSYS_11AF1462&REV_F1\3&11583659&0&E8

PCI Express x4 Bus #6

Intel NVMe Controller

[General Information]

Device Name:	Intel NVMe Controller
Original Device Name:	Intel NVMe Controller
Device Class:	NVMe Controller
Revision ID:	3
PCI Address (Bus:Device:Function) Number:	6:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_F1A5&SUBSYS_390A8086&REV_03

[PCI Express]

Version:	3.0
Maximum Link Width:	4x
Current Link Width:	4x
Maximum Link Speed:	8.0 GT/s
Current Link Speed:	8.0 GT/s
Device/Port Type:	PCI Express Endpoint
Slot Implemented:	No

Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L0s and L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	512 ns - 1 us
L1 Exit Latency:	4 - 8 us

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	DF100000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	Ńòàíääðòíúé êíòðîëëää NVM Express
Driver Description:	Ńòàíääðòíúé êíòðîëëää NVM Express
Driver Provider:	Ìàéêðîñîð
Driver Version:	10.0.14393.206
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_8086&DEV_F1A5&SUBSYS_390A8086&REV_03\4&34C6B66E&0&00E8

Intel HM170 PCH - LPC/eSPI Controller [D1]

[General Information]

Device Name:	Intel HM170 PCH - LPC/eSPI Controller [D1]
Original Device Name:	Intel HM170 PCH - LPC/eSPI Controller [D1]
Device Class:	PCI-to-ISA Bridge

Revision ID:	31 [D1]
PCI Address (Bus:Device:Function) Number:	0:31:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A14E&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	N/A

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family LPC Controller - A14E
Driver Provider:	INTEL
Driver Version:	10.1.1.14
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A14E&SUBSYS_11AF1462&REV_31\3&11583659&0&F8

Intel Skylake PCH-H - Power Management Controller [D1]

[General Information]

Device Name:	Intel Skylake PCH-H - Power Management Controller [D1]
Original Device Name:	Intel Skylake PCH-H - Power Management Controller [D1]
Device Class:	Unknown Memory
Revision ID:	31 [D1]
PCI Address (Bus:Device:Function) Number:	0:31:2

PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_A121&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	N/A
Memory Base Address 0	DF624000

[Features]

Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 100 Series/C230 Series Chipset Family PMC - A121
Driver Provider:	INTEL
Driver Version:	10.1.1.38
Driver Date:	03-Oct-2016
DeviceInstanceId	PCI\VEN_8086&DEV_A121&SUBSYS_11AF1462&REV_31\3&11583659&0&FA

Intel Skylake PCH-H - High Definition Audio Controller

[General Information]

Device Name:	Intel Skylake PCH-H - High Definition Audio Controller
Original Device Name:	Intel Skylake PCH-H - High Definition Audio Controller
Device Class:	Mixed mode device
Revision ID:	31
PCI Address (Bus:Device:Function) Number:	0:31:3
PCI Latency Timer:	32

Hardware ID: PCI\VEN_8086&DEV_A170&SUBSYS_11CB1462&REV_31

[System Resources]

Interrupt Line: IRQ16
Interrupt Pin: INTA#
Memory Base Address 0 FE030000
Memory Base Address 4 FE400000

[Features]

Bus Mastering: Enabled
Running At 66 MHz: Not Capable
Fast Back-to-Back Transactions: Not Capable

[Driver Information]

Driver Manufacturer: Microsoft
Driver Description: High Definition Audio (Microsoft)
Driver Provider: Microsoft
Driver Version: 10.0.14393.0
Driver Date: 15-Jul-2016
DeviceInstanceId PCI\VEN_8086&DEV_A170&SUBSYS_11CB1462&REV_31\3&11583659&0&FB

Intel Skylake PCH-H - SMBus Host Controller [D1]

[General Information]

Device Name: Intel Skylake PCH-H - SMBus Host Controller [D1]
Original Device Name: Intel Skylake PCH-H - SMBus Host Controller [D1]
Device Class: SMBus (System Management Bus)
Revision ID: 31 [D1]
PCI Address (Bus:Device:Function) Number: 0:31:4
PCI Latency Timer: 0

Hardware ID: PCI\VEN_8086&DEV_A123&SUBSYS_11AF1462&REV_31

[System Resources]

Interrupt Line:	IRQ16
Interrupt Pin:	INTA#
Memory Base Address 0	DF62A000
I/O Base Address 4	F000

[Features]

Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Capable

[Driver Information]

Driver Manufacturer:	Synaptics
Driver Description:	Synaptics SMBus Driver
Driver Provider:	Synaptics
Driver Version:	19.0.22.0
Driver Date:	20-Aug-2015
DeviceInstanceId	PCI\VEN_8086&DEV_A123&SUBSYS_11AF1462&REV_31\3&11583659&0&FC

Video Adapter

NVIDIA GeForce GTX 1070

[Video chipset]

Video Chipset:**Video Chipset Codename:**

Video Memory:

NVIDIA GeForce GTX 1070**GP104M**

8192 MBytes of GDDR5 SDRAM [Samsung]

[Video Card]**Video Card:**

Video Bus:

Video RAMDAC:

Video BIOS Version:

Video Chipset Revision:

NVIDIA GeForce GTX 1070 [MSI]

PCIe v3.0 x16 (8.0 GT/s) @ x16 (2.5 GT/s)

Integrated RAMDAC

86.04.31.00.0d

A1

[Performance]

Processor Clock:

139.0 MHz

Video Unit Clock:

544.0 MHz

Memory Clock:

202.5 MHz (Effective 810.0 MHz)

Memory Bus Width:

256-bit

Number Of ROPs:

64

Number Of Unified Shaders:

2048

Number Of TMUs (Texture Mapping Units):

128

NVIDIA SLI Capability:

Capable

NVIDIA SLI Status:

Not Present

Hardware ID:

PCI\VEN_10DE&DEV_1BE1&SUBSYS_11AF1462&REV_A1

PCI Location (Bus:Dev:Fnc):

1:00:0

[Driver Information]

Driver Manufacturer:

NVIDIA

Driver Description:

NVIDIA GeForce GTX 1070

Driver Provider:

NVIDIA

Driver Version:

22.21.13.8494

Driver Date:

18-Jul-2017

DeviceInstanceId

PCI\VEN_10DE&DEV_1BE1&SUBSYS_11AF1462&REV_A1\4&11468B0&0&0008

Monitor

LG Philips [Unknown Model: LGD046E]

[General information]

Monitor Name:

LG Philips [Unknown Model: LGD046E]

Serial Number:

Unknown

Date Of Manufacture:

Week: 0, Year: 2014

Monitor Hardware ID:

Monitor\LGD046E

Max. Vertical Size:

21 cm

Max. Horizontal Size:

38 cm

[Advanced parameters]

Input Signal:

Digital

Color Bit Depth:

8 Bits per Primary Color

Digital Video Interface Standard Supported:

DisplayPort

Display Type:

RGB color

Gamma Factor:

2.20

[DPMS Modes]

Standby:

Not Supported

Suspend:

Not Supported

Active Off:

Not Supported

Standard Colour Space:

Not Supported

Preferred Timing Mode:
Default GTF Supported:
DFP 1.x Compatible:

Supported
Not Supported
Yes

[Supported Video Modes]

1920 x 1080
1920 x 1080

382 x 215 mm, Pixel Clock 173.32 MHz
382 x 215 mm, Pixel Clock 92.47 MHz

Drives

Floppy Drives

1.44 MB 3 1/2

(S)ATA/ATAPI Drives

KINGSTON SUV400S37240G

[General Information]

Drive Controller:	Serial ATA 6Gb/s @ 6Gb/s
Drive Model:	KINGSTON SUV400S37240G
Drive Revision:	0C3J96R9
Drive Serial Number:	50026B766C01C51C
World Wide Name:	550380440010
Drive Capacity:	228,936 MBytes (240 GB)
Drive Capacity [MB]:	228936
Media Rotation Rate:	SSD Drive (Non-rotating)
Nominal Form Factor:	Unknown
ATA Major Version Supported:	ATA/ATAPI-5, ATA/ATAPI-6, ATA/ATAPI-7, ATA8-ACS, ACS-2, ACS-3, ACS-4
ATA Minor Version Supported:	ATA8-ACS version 6
ATA Transport Version Supported:	SATA 3.1

[Drive Geometry]

Number of Cylinders:	16383
Number of Heads:	16
Sectors Per Track:	63
Number of Sectors:	16514064
Total 32-bit LBA Sectors:	268435455
Total 48-bit LBA Sectors:	468862128
Logical Sector Size:	512 Bytes
Cache Buffer Size:	N/A

[Transfer Modes]

Sectors Per Interrupt:	Total: 16, Active: 16
Max. PIO Transfer Mode:	4
Multiword DMA Mode:	Total: 2, Active: -
Singleword DMA Mode:	Total: -, Active: -
Ultra-DMA Mode:	Total: 6 (ATA-133), Active: 6 (ATA-133)
Max. Multiword DMA Transfer Rate:	16.7 MBytes/s

Max. PIO with IORDY Transfer Rate:	16.7 MBytes/s
Max. PIO w/o IORDY Transfer Rate:	16.7 MBytes/s
Transfer Width:	16-bit
Native Command Queuing:	Supported, Max. Depth: 32
TRIM Command:	Supported (Deterministic Read After TRIM, Any Value)

[Device flags]

Fixed Drive:	Present
Removable Drive:	Not Present
Magnetic Storage:	Present
LBA Mode:	Supported
DMA Mode:	Supported
IORDY:	Supported
IORDY Disableable:	Supported

[Features]

Write Cache:	Present, Active
S.M.A.R.T. Feature:	Present, Active
Security Feature:	Present, Inactive
Removable Media Feature:	Not Present, Disabled
Power Management:	Present, Active
Advanced Power Management:	Present, Active
Packet Interface:	Not Present, Disabled
Look-Ahead Buffer:	Present, Active
Host Protected Area:	Present, Disabled
Power-Up In Standby:	Not Supported, Inactive
Automatic Acoustic Management:	Not Supported, Inactive
48-bit LBA:	Supported, Active
Host-Initiated Link Power Management:	Supported
Device-Initiated Link Power Management:	Supported, Enabled
In-Order Data Delivery:	Not Supported
Hardware Feature Control:	Not Supported
Software Settings Preservation:	Supported, Enabled
NCQ Autosense:	Supported

Link Power State Device Sleep:	Not Supported
Hybrid Information Feature:	Not Supported
Rebuild Assist:	Not Supported
Power Disable:	Not Supported
All Write Cache Non-Volatile:	Not Supported
Extended Number of User Addressable Sectors:	Supported
CFast Specification:	Not Supported
NCQ Priority Information:	Not Supported
Host Automatic Partial to Slumber Transitions:	Supported
Device Automatic Partial to Slumber Transitions:	Supported
NCQ Streaming:	Not Supported
NCQ Queue Management Command:	Not Supported
DevSleep to Reduced Power State:	Not Supported
Extended Power Conditions Feature:	Not Supported
Sense Data Reporting Feature:	Supported, Disabled
Free-Fall Control Feature:	Not Supported
Write-Read-Verify Feature:	Not Supported

[Security]

Security Feature:	Supported
Security Status:	Disabled
Security Locked:	Disabled
Security Frozen:	Enabled
Enhanced Security Erase:	Supported
Sanitize Feature:	Supported
Sanitize Device - Crypto Scramble:	Supported
Sanitize Device - Overwrite:	Not Supported
Sanitize Device - Block Erase:	Supported
Sanitize Device - Antifreeze Lock:	Not Supported
Device Encrypts All User Data:	Supported
Trusted Computing:	Not Supported

[Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)]

[01] Raw Read Error Rate:	100/Always OK, Worst: 100
---------------------------	---------------------------

[05] Reallocated Sector Count:	100/10, Worst: 100
[09] Power-On Hours/Cycle Count:	100/Always OK, Worst: 100 (1665 hours / 69.4 days)
[0C] Power Cycle Count:	100/Always OK, Worst: 100 (Data = 230,0)
[64] Gigabytes Erased:	100/Always OK, Worst: 100 (Data = 1260736,0)
[65] Unknown	100/Always OK, Worst: 100 (Data = 208416,0)
[AA] Available Reserved Space/Block Count:	100/Always OK, Worst: 100
[AB] Program Fail Count (Total):	100/Always OK, Worst: 100
[AC] Erase Fail Count (Total):	100/Always OK, Worst: 100
[AE] Unexpected Power Loss Count:	100/Always OK, Worst: 100 (Data = 15,0)
[AF] Program/ECC Fail Count:	100/Always OK, Worst: 100
[B0] Erase Fail Count:	100/Always OK, Worst: 100
[B1] Wear Leveling Count:	99/Always OK, Worst: 99 (Data = 371,0)
[B2] Used Reserved Block Count (Chip):	100/Always OK, Worst: 100
[B4] Unused Reserved Block Count (Total):	100/Always OK, Worst: 100 (Data = 1324,0)
[B7] SATA Interface Downshift / Runtime Bad Block:	100/Always OK, Worst: 100 (Data = 4,0)
[BB] Uncorrectable Error Count:	100/Always OK, Worst: 100
[C2] Temperature	35/Always OK, Worst: 100 (35.0 °C)
[C3] ECC Error Rate:	100/Always OK, Worst: 100
[C4] Reallocation Event Count:	100/Always OK, Worst: 100
[C5] Current Pending Sector Count:	100/Always OK, Worst: 100
[C7] SATA CRC Error Count:	100/Always OK, Worst: 100
[C9] Uncorrectable Soft Read Error Rate:	100/Always OK, Worst: 100
[CC] Soft ECC Correction Rate:	100/Always OK, Worst: 100
[E7] SSD Life Left:	99/Always OK, Worst: 99 (Data = 1,0)
[E9] Remaining Life:	100/Always OK, Worst: 100 (Data = 2202,0)
[EA] Unknown	100/Always OK, Worst: 100 (Data = 707,0)
[F1] Total Host Writes:	100/Always OK, Worst: 100 (Data = 1853,0)
[F2] Total Host Reads:	100/Always OK, Worst: 100 (Data = 1110,0)
[FA] Read Error Retry Rate:	100/Always OK, Worst: 100

Drive Remaining Life	99%
----------------------	-----

[Device Statistics]

Lifetime Power-On Resets:	230
---------------------------	-----

Power-on Hours:	1665
Logical Sectors Written:	3886815153
Logical Sectors Read:	2328012192
Number of Write Commands:	48291770
Number of Read Commands:	32367696
Number of Reported Uncorrectable Errors:	0
Resets Between Command Acceptance and Completion:	445
Current Temperature:	35 °C
Average Long Term Temperature :	0 °C
Operating Temperature Range:	0 - 70 °C
Lifetime Temperature:	19 - 51 °C
Time in Under-Temperature:	0 minutes
Time in Over-Temperature:	0 minutes
Number of Hardware Resets:	445
Number of Interface CRC Errors:	0
Used Endurance Indicator:	1%

Slimtype DVD A DU8A6SH

[General Information]

Drive Model:	Slimtype DVD A DU8A6SH
Drive Revision:	DP57
Drive Serial Number:	425633501273
Serial Number:	425633501273
Drive Type:	DVD+R DL
Drive Controller:	Serial ATA 1.5Gb/s

[Transfer Modes]

Max. PIO Transfer Mode:	4
Multiword DMA Mode:	Total: 2, Active: -
Singleword DMA Mode:	Total: -, Active: -
Ultra-DMA Mode:	Total: 6 (ATA-133), Active: 6 (ATA-133)
Max. Multiword DMA Transfer Rate:	16.7 MBytes/s
Max. PIO with IORDY Transfer Rate:	16.7 MBytes/s
Max. PIO w/o IORDY Transfer Rate:	16.7 MBytes/s

[Device flags]

Fixed Drive:	Present
Removable Drive:	Present
Magnetic Storage:	Not Present
LBA Mode:	Supported
DMA Mode:	Supported
IORDY:	Supported
IORDY Disableable:	Supported

[Device capabilities]

Drive can read:	CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW, DVD+R DL
Drive can write:	CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW, DVD+R DL

INTEL SSDPEKKW512G7

Drive Model:

Drive Serial Number:

Drive Firmware Revision:

NVMe Version Supported:

Drive Capacity:

Drive Capacity [MB]:

INTEL SSDPEKKW512G7

BTPY64820VAG512F

PSF100C

v1.2

488,386 MBytes (512 GB)

488386

[Capabilities]

Volatile Write Cache:	Present
Compare Command:	Not Supported
Write Uncorrectable Command:	Supported
Dataset Management:	Supported

[Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)]

Available Space Below Threshold:	OK
Temperature Exceeded Critical Threshold:	OK
Device Reliability Degraded:	OK
Media In Read Only Mode:	OK
Volatile Memory Backup Device Failed:	OK
Drive Temperature:	35 °C
Warning Temperature Threshold:	70 °C
Critical Temperature Threshold:	80 °C
Time Above Warning Temperature Threshold:	16 minutes
Time Above Critical Temperature Threshold:	0 minutes
Spare Capacity Available:	100%
Device Health:	100%
Power Cycles:	255
Power On Hours:	1779 hours
Unsafe Shutdowns:	11
Media Errors:	0
Total Host Reads:	2948 GBytes
Total Host Writes:	3354 GBytes

Audio

Intel Skylake PCH-H - High Definition Audio Controller

Audio Adapter:

Audio Controller Hardware ID:

Intel Skylake PCH-H - High Definition Audio Controller

PCI\VEN_8086&DEV_A170&SUBSYS_11CB1462&REV_31

High Definition Audio Codec:

Audio Codec Hardware ID:

RealTek ALC899

HDAUDIO\FUNC_01&VEN_10EC&DEV_0899&SUBSYS_00000000

[Driver Information]

Driver Manufacturer:

Driver Description:

Driver Provider:

Driver Version:

Driver Date:

DeviceInstanceId

Realtek

Realtek High Definition Audio

Realtek Semiconductor Corp.

6.0.1.7841

03-Jun-2016

HDAUDIO\FUNC_01&VEN_10EC&DEV_0899&SUBSYS_146211CB&REV_1000\4&1FDCC5BB&0&0001

NVIDIA GP104 - High Definition Audio Controller

Audio Adapter:

Audio Controller Hardware ID:

NVIDIA GP104 - High Definition Audio Controller

PCI\VEN_10DE&DEV_10F0&SUBSYS_11AF1462&REV_A1

High Definition Audio Codec:

Audio Codec Hardware ID:

nVidia

HDAUDIO\FUNC_01&VEN_10DE&DEV_0083&SUBSYS_00000000

[Driver Information]

Driver Manufacturer:	Microsoft
Driver Description:	Óñòðíéñòâî ñ ïäãäðæêíé High Definition Audio
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	15-Jul-2016
DeviceInstanceId	HDAUDIO\FUNC_01&VEN_10DE&DEV_0083&SUBSYS_146211AF&REV_1001\5&3046E80&0&0001

Network

Qualcomm/Atheros e2400 PCI-E Gigabit Ethernet Controller

[General information]

Network Card:	Qualcomm/Atheros e2400 PCI-E Gigabit Ethernet Controller
Vendor Description:	Qualcomm Atheros Ar81xx series PCI-E Ethernet Controller
MAC Address:	4C-CC-6A-82-1B-E4

[Capabilities]

Maximum Link Speed:	1000 Mbps
Transmit Buffer Size:	1558528 Bytes
Receive Buffer Size:	1558528 Bytes
Hardware ID:	PCI\VEN_1969&DEV_E0A1&SUBSYS_11AF1462&REV_10

[Driver Information]

Driver Manufacturer:	Rivet Networks
Driver Description:	Killer E2400 Gigabit Ethernet Controller

Driver Provider:	Rivet Networks
Driver Version:	9.0.0.37
Driver Date:	26-Jan-2016
DeviceInstanceId	PCI\VEN_1969&DEV_E0A1&SUBSYS_11AF1462&REV_10\FF821BE44CCC6AFF00

Intel Dual Band Wireless-AC 8260 AC 2x2 HMC WiFi Adapter

[General information]

Network Card:	Intel Dual Band Wireless-AC 8260 AC 2x2 HMC WiFi Adapter
Vendor Description:	Microsoft
MAC Address:	B8-8A-60-C3-D0-2A

[Capabilities]

Maximum Link Speed:	243 Mbps
Transmit Buffer Size:	9 Bytes
Receive Buffer Size:	9 Bytes
Hardware ID:	PCI\VEN_8086&DEV_24F3&SUBSYS_10108086&REV_3A

[Driver Information]

Driver Manufacturer:	Intel Corporation
Driver Description:	Intel(R) Dual Band Wireless-AC 8260
Driver Provider:	Intel
Driver Version:	19.40.0.3
Driver Date:	15-Jan-2017
DeviceInstanceId	PCI\VEN_8086&DEV_24F3&SUBSYS_10108086&REV_3A\B88A60FFFFC3D02A00

Ports

Serial Ports

Parallel Ports

USB

xHCI-ñîâîảñoèìûé õîño-êíîðđîëëåđ USB

Root Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port5] : No Device Connected

[Port6] : No Device Connected

[Port7] : USB-óñòðíéñòâî ââîäà

[Device Information]

Device Manufacturer:	precisionWave
Product Name:	-
Serial Number:	-
USB Version Supported:	1.10
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-óñòðíéñòâî ââîäà
Hardware ID:	USB\VID_1770&PID_FF00

[Driver Information]

Driver Manufacturer:	(Ñòàíäàððòíúâ ñèñòâííúâ óñòðíéñòââ)
Driver Description:	USB-óñòðíéñòâî ââîäà
Driver Provider:	Microsoft
Driver Version:	10.0.14393.351
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1770&PID_FF00\MSI_EPF_USB

[Port8] : No Device Connected

[Port9] : Ñîñòàâííâ USB óñòðíéñòâî

[Device Information]

Device Manufacturer:	Razer
Product Name:	Razer Imperator
Serial Number:	N/A
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	Ñîñòàâíîâ USB óñòðíéñòâî
Hardware ID:	USB\VID_1532&PID_002F

[Driver Information]

Driver Manufacturer:	(Ñòàíäàððíúé USB òîñò-êííððíëëâð)
Driver Description:	Ñîñòàâíîâ USB óñòðíéñòâî
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1532&PID_002F\5&374E260D&0&9

[Port10] : Intel(R) Wireless Bluetooth(R)

[Device Information]

Device Manufacturer:	Intel
Product Name:	-
Serial Number:	-
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	Intel(R) Wireless Bluetooth(R)
Hardware ID:	USB\VID_8087&PID_0A2B

[Driver Information]

Driver Manufacturer:	Intel Corporation
----------------------	-------------------

Driver Description:	Intel(R) Wireless Bluetooth(R)
Driver Provider:	Intel Corporation
Driver Version:	19.50.0.5
Driver Date:	21-Feb-2017
DeviceInstanceId	USB\VID_8087&PID_0A2B\5&374E260D&0&10

[Port11] : Ñîñòàâîîâ USB óñòðíéñòâî

[Device Information]

Device Manufacturer:	Chicony
Product Name:	-
Serial Number:	-
USB Version Supported:	2.00
USB Device Speed:	USB 2.0 High-speed
Driver Description:	Ñîñòàâîîâ USB óñòðíéñòâî
Hardware ID:	USB\VID_04F2&PID_B536

[Driver Information]

Driver Manufacturer:	(Ñòàíäàððîíúé USB òñòð-éíòðíééâð)
Driver Description:	Ñîñòàâîîâ USB óñòðíéñòâî
Driver Provider:	Microsoft
Driver Version:	10.0.14393.0
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_04F2&PID_B536\5&374E260D&0&11

[Port12] : No Device Connected

[Port13] : No Device Connected

[Port14] : No Device Connected

[Port15] : No Device Connected

[Port16] : No Device Connected

[Port17] : Çàïïèìàpùåå óñòðîéñòâî äëÿ USB

[Device Information]

Device Manufacturer:	JetFlash
Product Name:	Mass Storage Device
Serial Number:	07BF76GWEARI1WSO
USB Version Supported:	3.00

USB Device Speed:
Driver Description:
Hardware ID:

USB 3.0 SuperSpeed
Çàïïèíàpùåå óñððíéñòâî äëý USB
USB\VID_8564&PID_1000

[Driver Information]

Driver Manufacturer:
Driver Description:
Driver Provider:
Driver Version:
Driver Date:
DeviceInstanceId

USB-ñíàíåñòèíå çàïïèíàpùåå óñððíéñòâî
Çàïïèíàpùåå óñððíéñòâî äëý USB
Microsoft
10.0.14393.0
21-Jun-2006
USB\VID_8564&PID_1000\07BF76GWEARI1WSO

[Port18] : No Device Connected

[Port19] : No Device Connected

[Port20] : No Device Connected

[Port21] : No Device Connected

[Port22] : No Device Connected

[Port23] : No Device Connected

[Port24] : No Device Connected

ASMedia USB3.1 eXtensible Host Controller

Root Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

Smart Battery

Battery #0

[General Properties]

Device Name:	MS-1785
Manufacturer Name:	MSI Corp.

Serial Number:	
Unique ID:	MSI Corp.MS-1785
Chemistry:	Lithium Ion
Designed Capacity:	86580 mWh
Full Charged Capacity:	86525 mWh
Wear Level:	0.1 %

[Current Power Status]

Power Status:	On AC Power
Current Capacity:	84404 mWh (97.5 %)
Current Voltage:	12.460 V