

HWiNFO64 v5.90-3550

Creation Time 26.10.2018 17:52

SCHLUPP-CHRISTI

[Current Computer]

Computer Name:	SCHLUPP-CHRISTI
Computer Brand Name:	GIGABYTE X470 AORUS ULTRA GAMING

[Operating System]

Operating System:	Microsoft Windows 10 Professional (x64) Build 17134.376 (1803/RS4)
UEFI Boot:	Present
Secure Boot:	Not Present

Central Processor(s)

[CPU Unit Count]

Number Of Processor Packages (Physical):	1
Number Of Processor Cores:	8
Number Of Logical Processors:	16

AMD Ryzen 7 2700X

[General Information]

Processor Name:	AMD Ryzen 7 2700X
Original Processor Frequency:	3700.0 MHz
Original Processor Frequency [MHz]:	3700
CPU ID:	00800F82
Extended CPU ID:	00800F82
CPU Brand Name:	AMD Ryzen 7 2700X Eight-Core Processor
CPU Vendor:	AuthenticAMD
CPU Stepping:	PiR-B2
CPU Code Name:	Pinnacle Ridge
CPU Technology:	12 nm
CPU OPN:	YD270XBGM88AF
CPU Thermal Design Power (TDP):	105.0 W
CPU Max. Junction Temperature (Tj,max):	85 °C
CPU Type:	Production Unit
CPU Platform:	AM4
Microcode Update Revision:	8008206
SMU Firmware Revision:	43.20.0
Core Performance Order:	0, 2, 4, 7, 5, 6, 1, 3
Number of CPU Cores:	8
Number of Logical CPUs:	16

[Operating Points]

CPU HFM (Base):	3700.0 MHz = 37.00 x 100.0 MHz
CPU Boost Max:	[Unlimited]
CPU Current:	4048.8 MHz = 40.50 x 100.0 MHz @ 1.3500 V

CPU Bus Type:

UMI

[Cache and TLB]

L1 Cache:	Instruction: 8 x 64 KBytes, Data: 8 x 32 KBytes
L2 Cache:	Integrated: 8 x 512 KBytes
L3 Cache:	2 x 8 MBytes
Instruction TLB:	Fully associative, 64 entries
Data TLB:	Fully 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	Not Present
Internal ACPI Support	Not Present
MMX Technology	Present
Fast FP Save/Restore (IA MMX-2)	Present
Streaming SIMD Extensions	Present
Streaming SIMD Extensions 2	Present
Self-Snoop	Not Present
Multi-Threading Capable	Present
Automatic Clock Control	Not Present
IA-64 Processor	Not Present
Signal Break on FERR	Not Present
Streaming SIMD Extensions 3	Present
PCLMULQDQ Instruction Support	Present
MONITOR/MWAIT Support	Present
Supplemental Streaming SIMD Extensions 3	Present
FMA Extension	Present
CMPXCHG16B Support	Present
Streaming SIMD Extensions 4.1	Present
Streaming SIMD Extensions 4.2	Present
x2APIC	Not Present
POPCNT Instruction	Present
AES Cryptography Support	Present
XSAVE/XRSTOR/XSETBV/XGETBV Instructions	Present
XGETBV/XSETBV OS Enabled	Present
AVX Support	Present
Half-Precision Convert (CVT16)	Present

[Extended Feature Flags]

FPU on Chip	Present
Enhanced Virtual-86 Mode	Present
I/O Breakpoints	Present
Page Size Extensions	Present
Time Stamp Counter	Present
AMD-style Model Specific Registers	Present
Machine Check Exception	Present
CMPXCHG8B Instruction	Present
APIC On Chip	Present
SYSCALL and SYSRET Instructions	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
Multi-Processing / Brand feature	Not Present
No Execute	Present
MMX Technology	Present
MMX+ Extensions	Present
Fast FP Save/Restore	Present
Fast FP Save/Restore Optimizations	Present
1 GB large page support	Present
RDTSCP Instruction	Present
x86-64 Long Mode	Present
3DNow! Technology Extensions	Not Present
3DNow! Technology	Not 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	Present
Software Guard Extensions (SGX) Support	Not Present
Supervisor Mode Execution Protection (SMEP)	Present
Supervisor Mode Access Prevention (SMAP)	Present
Hardware Lock Elision (HLE)	Not Present
Restricted Transactional Memory (RTM)	Not Present
Memory Protection Extensions (MPX)	Not Present
Read/Write FS/GS Base Instructions	Present
Enhanced Performance String Instruction	Not Present
INVPID Instruction	Not 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	Not 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	Not Present
Intel Processor Trace	Not Present
PREFETCHWT1 Instruction	Not Present
AVX-512 Vector Bit Manipulation Instructions	Not Present
AVX-512 Vector Bit Manipulation Instructions 2	Not Present
AVX-512 Galois Fields New Instructions	Not Present
AVX-512 Vector AES	Not Present
AVX-512 Vector Neural Network Instructions	Not Present
AVX-512 Bit Algorithms	Not Present
AVX-512 Carry-Less Multiplication Quadword (VPCMLQDQ)	Not Present
AVX-512 Vector POPCNT (VPOPCNTD/VPOPCNTQ)	Not Present
User-Mode Instruction Prevention	Not Present
Protection Keys for User-mode Pages	Not Present
OS Enabled Protection Keys	Not Present
Wait and Pause Enhancements (WAITPKG)	Not Present
Total Memory Encryption	Not Present
Read Processor ID	Not Present
Cache Line Demote	Not Present
MOVDIRI: Direct Stores	Not Present
MOVDIR64B: Direct Stores	Not Present
SGX Launch Configuration	Not Present

AVX-512 4 x Vector Neural Network Instructions Word Variable Precision	Not Present
AVX-512 4 x Fused Multiply Accumulation Packed Single Precision	Not Present
Fast Short REP MOV	Not Present
Platform Configuration (PCONFIG)	Not Present
LAHF/SAHF Long Mode Support	Present
Core Multi-Processing Legacy Mode	Present
Secure Virtual Machine	Present
Extended APIC Register Space	Present
LOCK MOV CR0 Support	Present
Advanced Bit Manipulation	Present
SSE4A Support	Present
Misaligned SSE Mode	Present
PREFETCH(W) Support	Present
OS Visible Work-around Support	Present
Instruction Based Sampling	Not Present
XOP Instruction Support	Not Present
SKINIT, STGI, and DEV Support	Present
Watchdog Timer Support	Present
TBM0 Instruction Support	Not Present
Lightweight Profiling Support	Not Present
FMA4 Instruction Support	Not Present
Translation Cache Extension	Present
NodeId Support	Not Present
Trailing Bit Manipulation	Not Present
Topology Extensions	Present
Core Performance Counter Extensions	Present
NB Performance Counter Extensions	Present
Streaming Performance Monitor Architecture	Not Present
Data Breakpoint Extension	Present
Performance Time-Stamp Counter	Not Present
L2I Performance Counter Extensions	Present
MWAITX/MONITORX Support	Present
Secure Memory Encryption	Present
Secure Encrypted Virtualization	Present
[Enhanced Features]	
Core Performance Boost	Supported, Enabled
[Memory Ranges]	
Maximum Physical Address Size:	48-bit (256 TBytes)
Maximum Virtual Address Size:	48-bit (256 TBytes)
[MTRRs]	
Range 0-80000000 (0MB-2048MB) Type:	Write Back (WB)
Range 80000000-C0000000 (2048MB-3072MB) Type:	Write Back (WB)
Range C0000000-E0000000 (3072MB-3584MB) Type:	Write Back (WB)

Motherboard

[Computer]	
Computer Brand Name:	GIGABYTE X470 AORUS ULTRA GAMING
[Motherboard]	
Motherboard Model:	GIGABYTE X470 AORUS ULTRA GAMING-CF
Motherboard Chipset:	AMD X470 (Low-Power Promontory A)
Motherboard Slots:	4xPCI Express x1, 1xPCI Express x2, 3xPCI Express x4, 1xPCI Express x16
PCI Express Version Supported:	v3.0
USB Version Supported:	v3.1
[BIOS]	
BIOS Manufacturer:	American Megatrends
BIOS Date:	08/08/2018
BIOS Version:	F3

AMD AGESA Version:	PinnaclePI-AM4 1.0.0.4
UEFI BIOS:	Capable
Super-IO/LPC Chip:	ITE IT8686E/CX + ITE IT8792E/IT8795E/DX

ACPI Devices

AMD GPIO Controller

Device Name:	AMD GPIO Controller
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[Assigned Resources]

IRQ:	7
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[Alternative 1]

Memory Location:	FED81500 - FED818FF
IRQ:	7

AMD GPIO Controller

Device Name:	AMD GPIO Controller
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[Assigned Resources]

Memory Location:	FEC30000 - FEC30FFF
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[Alternative 1]

Memory Location:	FEC30000 - FEC30FFF
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Programmable interrupt controller

Device Name:	Programmable interrupt controller
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[Assigned Resources]

I/O Port:	0020 - 0021
IRQ:	65792

[Alternative 1]

I/O Port:	0020 - 0021
I/O Port:	00A0 - 00A1

System timer

Device Name:	System timer
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[Assigned Resources]

I/O Port:	0040 - 0043
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[Alternative 1]

I/O Port:	0040 - 0043
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IRQ:	0
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High precision event timer

Device Name:	High precision event timer
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[Assigned Resources]

IRQ:	0
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[Alternative 1]

Memory Location:	FED00000 - FED003FF
IRQ:	0
IRQ:	8

Direct memory access controller

Device Name:	Direct memory access controller
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[Assigned Resources]

I/O Port:	0089 - 008B
DMA:	4

[Alternative 1]

I/O Port:	0000 - 000F
I/O Port:	0081 - 0083
I/O Port:	0087
I/O Port:	0089 - 008B
I/O Port:	008F
I/O Port:	00C0 - 00DF
DMA:	4

System speaker

Device Name:	System speaker
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[Assigned Resources]

I/O Port:	0061
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[Alternative 1]

I/O Port:	0061
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PCI Express Root Complex

Device Name:	PCI Express Root Complex
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[Assigned Resources]

I/O Port:	0000 - FFFFFFFF
I/O Port:	03B0 - 03DF
Memory Location:	000A0000 - 0009FFFF
Memory Location:	E0000000 - FEC2FFFF

[Alternative 1]

I/O Port:	0000 - 03AF
I/O Port:	03E0 - 0CF7
I/O Port:	03B0 - 03DF
I/O Port:	0D00 - FFFF
Memory Location:	000A0000 - 000BFFFF
Memory Location:	000C0000 - 000DFFFF
Memory Location:	E0000000 - FEC2FFFF
Memory Location:	FEE00000 - FFFFFFFF

System CMOS/real time clock

Device Name:	System CMOS/real time clock
[Assigned Resources]	
I/O Port:	0070 - 0071
[Alternative 1]	
I/O Port:	0070 - 0071

System board

Device Name:	System board
[Assigned Resources]	
Memory Location:	F8000000 - FBFFFFFF
[Alternative 1]	
Memory Location:	F8000000 - FBFFFFFF

Motherboard resources

Device Name:	Motherboard resources
[Assigned Resources]	
I/O Port:	0A00 - 0A2F
[Alternative 1]	
I/O Port:	0A00 - 0A2F
I/O Port:	0A30 - 0A3F
I/O Port:	0A40 - 0A4F

Motherboard resources

Device Name:	Motherboard resources
[Assigned Resources]	
Memory Location:	FEB80000 - FEBFFFFFF
[Alternative 1]	
Memory Location:	FEB80000 - FEBFFFFFF

Motherboard resources

Device Name:	Motherboard resources
[Assigned Resources]	
Memory Location:	FD100000 - FFFFFFFF
[Alternative 1]	
Memory Location:	FD100000 - FFFFFFFF

Motherboard resources

Device Name:	Motherboard resources
[Assigned Resources]	
I/O Port:	0010 - 001F
I/O Port:	0067 - 006F
I/O Port:	0088
I/O Port:	00B1
I/O Port:	04D6
I/O Port:	0C52
I/O Port:	0000 - 0C6E
I/O Port:	0CD2 - 0CD3
I/O Port:	0800 - 089F
Memory Location:	00000000 - 0000008F
IRQ:	1114369
IRQ:	1114369
[Alternative 1]	
I/O Port:	0010 - 001F
I/O Port:	0022 - 003F
I/O Port:	0063
I/O Port:	0065
I/O Port:	0067 - 006F
I/O Port:	0072 - 007F
I/O Port:	0080
I/O Port:	0084 - 0086
I/O Port:	0088
I/O Port:	008C - 008E
I/O Port:	0090 - 009F
I/O Port:	00A2 - 00BF
I/O Port:	00B1
I/O Port:	00E0 - 00EF
I/O Port:	04D0 - 04D1
I/O Port:	040B
I/O Port:	04D6
I/O Port:	0C00 - 0C01
I/O Port:	0C14
I/O Port:	0C50 - 0C51
I/O Port:	0C52
I/O Port:	0C6C
I/O Port:	0C6F
I/O Port:	0CD0 - 0CD1
I/O Port:	0CD2 - 0CD3
I/O Port:	0CD4 - 0CD5
I/O Port:	0CD6 - 0CD7
I/O Port:	0CD8 - 0CDF

I/O Port:	0800 - 089F
I/O Port:	0B00 - 0B0F
I/O Port:	0B20 - 0B3F
I/O Port:	0900 - 090F
I/O Port:	0910 - 091F
Memory Location:	FEC00000 - FEC00FFF
Memory Location:	FEC01000 - FEC01FFF
Memory Location:	FEDC0000 - FEDC0FFF
Memory Location:	FEE00000 - FEE00FFF
Memory Location:	FED80000 - FED8FFFF
Memory Location:	FEC10000 - FEC10FFF
Memory Location:	FF000000 - FFFFFFFF

SMBIOS DMI

BIOS

BIOS Vendor:	American Megatrends Inc.
BIOS Version:	F3
BIOS Release Date:	08/08/2018
BIOS Start Segment:	F000
BIOS Size:	16 MBytes

System BIOS Version:	5.13
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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:	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
IEEE1394 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
Virtual Machine:	Not Present

System

System Manufacturer:	Gigabyte Technology Co., Ltd.
Product Name:	X470 AORUS ULTRA GAMING
Product Version:	Default string
Product Serial Number:	Default string
UUID:	{03D502E0-045E-05AD-5006-7F0700080009}
SKU Number:	Default string
Family:	Default string

Mainboard

Mainboard Manufacturer:	Gigabyte Technology Co., Ltd.
Mainboard Name:	X470 AORUS ULTRA GAMING-CF
Mainboard Version:	x.x
Mainboard Serial Number:	Default string
Asset Tag:	Default string
Location in chassis:	Default string

System Enclosure

Manufacturer:	Default string
Case Type:	Desktop
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

OEM Strings

Default string

System Configuration Options

Default string

System Boot Information

Boot Status:

No error occurred

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 Location:

Internal

Cache Type:

L1 Unified

Cache Scheme:

Write-Back

Supported SRAM Type:

Pipeline Burst

Current SRAM Type:

Pipeline Burst

Cache Speed:

1 ns

Error Correction Type:

Multi-bit ECC

Maximum Cache Size:

768 KBytes

Installed Cache Size:

768 KBytes

Cache Associativity:

8-way Set-Associative

L2 - Cache

Socket Designation:

L2 - Cache

Cache State:

Enabled

Cache Location:

Internal

Cache Type:

L2 Unified

Cache Scheme:

Write-Back

Supported SRAM Type:

Pipeline Burst

Current SRAM Type:

Pipeline Burst

Cache Speed:

1 ns

Error Correction Type:

Multi-bit ECC

Maximum Cache Size:	4096 KBytes
Installed Cache Size:	4096 KBytes
Cache Associativity:	8-way Set-Associative

L3 - Cache

Socket Designation:	L3 - Cache
Cache State:	Enabled
Cache Location:	Internal
Cache Type:	L3 Unified
Cache Scheme:	Write-Back
Supported SRAM Type:	Pipeline Burst
Current SRAM Type:	Pipeline Burst
Cache Speed:	1 ns
Error Correction Type:	Multi-bit ECC
Maximum Cache Size:	16384 KBytes
Installed Cache Size:	16384 KBytes
Cache Associativity:	16-way Set-Associative

Processor

Processor Manufacturer:	Advanced Micro Devices, Inc.
Processor Version:	AMD Ryzen 7 2700X Eight-Core Processor
External Clock:	100 MHz
Maximum Clock Supported:	4350 MHz
Current Clock:	3700 MHz
CPU Socket:	Populated
CPU Status:	Enabled
Processor Type:	Central Processor
Processor Voltage:	1.2 V
Processor Upgrade:	Socket AM4
Socket Designation:	AM4

BIOS Language

en|US|iso8859-1
zh|TW|unicode
zh|CN|unicode
ru|RU|iso8859-5
de|DE|iso8859-1 <Active>
ja|JP|unicode
ko|KR|unicode
es|ES|iso8859-1
fr|FR|iso8859-1
it|IT|iso8859-1
pt|PT|iso8859-1
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Memory Devices

32-bit Memory Error Information

Physical Memory Array

Array Location:	System board
Array Use:	System memory
Error Detecting Method:	None
Memory Capacity:	256 GBytes
Memory Devices:	4

Memory Array Mapped Address

Starting Address:	00000000
Ending Address:	00FFFFFF
Partition Width:	2

32-bit Memory Error Information

Memory Device

Total Width:	Unknown
Data Width:	Unknown
Device Size:	0 MBytes
Device Form Factor:	Unknown
Device Locator:	DIMM 0
Bank Locator:	P0 CHANNEL A
Device Type:	Unknown
Device Type Detail:	
Manufacturer:	Unknown
Serial Number:	Unknown
Part Number:	Unknown
Asset Tag:	Unknown

32-bit Memory Error Information

Memory Device

Total Width:	64 bits
Data Width:	64 bits
Device Size:	8192 MBytes
Device Form Factor:	DIMM
Device Locator:	DIMM 1

Bank Locator:	P0 CHANNEL A
Device Type:	DDR4
Device Type Detail:	Synchronous
Memory Speed:	3000 MHz
Manufacturer:	Unknown
Serial Number:	00000000
Part Number:	F4-3200C16-8GVKB
Asset Tag:	Unknown

Memory Device Mapped Address

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

32-bit Memory Error Information

Memory Device

Total Width:	Unknown
Data Width:	Unknown
Device Size:	0 MBytes
Device Form Factor:	Unknown
Device Locator:	DIMM 0
Bank Locator:	P0 CHANNEL B
Device Type:	Unknown
Device Type Detail:	
Manufacturer:	Unknown
Serial Number:	Unknown
Part Number:	Unknown
Asset Tag:	Unknown

32-bit Memory Error Information

Memory Device

Total Width:	64 bits
Data Width:	64 bits
Device Size:	8192 MBytes
Device Form Factor:	DIMM
Device Locator:	DIMM 1
Bank Locator:	P0 CHANNEL B
Device Type:	DDR4
Device Type Detail:	Synchronous
Memory Speed:	3000 MHz
Manufacturer:	Unknown

Serial Number:	00000000
Part Number:	F4-3200C16-8GVKB
Asset Tag:	Unknown

Memory Device Mapped Address

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

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

Memory

[General information]

Total Memory Size:	16 GBytes
Total Memory Size [MB]:	16384

[Current Performance Settings]

Current Memory Clock:	1499.6 MHz
Current Timing (tCAS-tRCD-tRP-tRAS):	16-18-18-38
Memory Runs At:	Dual-Channel

Command Rate:	1T
Read to Read Delay (tRD_RD) Same Rank:	6T
Read to Read Delay (tRD_RD) Different DIMM:	5T
Write to Write Delay (tWR_WR) Same Rank:	6T
Write to Write Delay (tWR_WR) Different DIMM:	7T
Read to Precharge Delay (tRTP):	12T
Write to Precharge Delay (tWTP):	35T
Write Recovery Time (tWR):	24T
Row Cycle Time (tRC):	56T
Refresh Cycle Time (tRFC):	525T
Four Activate Window (tFAW):	32T

Row: 2 - 8 GB PC4-25600 DDR4 SDRAM G Skill F4-3200C16-8GVKB

[General Module Information]

Module Number:	2
Module Size:	8 GBytes
Memory Type:	DDR4 SDRAM
Module Type:	Unbuffered DIMM (UDIMM)
Memory Speed:	1600.0 MHz (DDR4-3200 / PC4-25600)
Module Manufacturer:	G Skill
Module Part Number:	F4-3200C16-8GVKB
Module Revision:	0.0
Module Serial Number:	0
Module Manufacturing Date:	N/A
Module Manufacturing Location:	0
SDRAM Manufacturer:	SK Hynix
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:	1
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):	1.60000 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:	31 - 32 mm
Module Maximum Thickness (Front):	1 - 2 mm
Module Maximum Thickness (Back):	1 - 2 mm
Address Mapping from Edge Connector to DRAM:	Standard

[Intel Extreme Memory Profile (XMP)]

XMP Revision:	2.0
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[Certified Profile [Enabled]]

Module VDD Voltage Level:	1.35 V
Minimum SDRAM Cycle Time (tCKAVGmin):	0.625 ns
CAS# Latencies Supported:	16
Minimum CAS# Latency Time (tAmin):	10.000 ns
Minimum RAS# to CAS# Delay (tRCDmin):	11.250 ns
Minimum Row Precharge Time (tRPmin):	11.250 ns
Minimum Active to Precharge Time (tRASmin):	23.750 ns
Supported Module Timing at 1600.0 MHz:	16-18-18-38
Minimum Active to Active/Refresh Time (tRCmin):	35.000 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):	24.000 ns
Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.500 ns
Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.000 ns

Row: 3 - 8 GB PC4-25600 DDR4 SDRAM G Skill F4-3200C16-8GVKB

[General Module Information]

Module Number:	3
Module Size:	8 GBytes
Memory Type:	DDR4 SDRAM
Module Type:	Unbuffered DIMM (UDIMM)
Memory Speed:	1600.0 MHz (DDR4-3200 / PC4-25600)
Module Manufacturer:	G Skill
Module Part Number:	F4-3200C16-8GVKB

Module Revision:	0.0
Module Serial Number:	0
Module Manufacturing Date:	N/A
Module Manufacturing Location:	0
SDRAM Manufacturer:	SK Hynix
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:	1
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):	1.60000 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:	31 - 32 mm
Module Maximum Thickness (Front):	1 - 2 mm
Module Maximum Thickness (Back):	1 - 2 mm
Address Mapping from Edge Connector to DRAM:	Standard

[Intel Extreme Memory Profile (XMP)]

XMP Revision:	2.0
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[Certified Profile [Enabled]]

Module VDD Voltage Level:	1.35 V
Minimum SDRAM Cycle Time (tCKAVGmin):	0.625 ns
CAS# Latencies Supported:	16
Minimum CAS# Latency Time (tAmin):	10.000 ns
Minimum RAS# to CAS# Delay (tRCDmin):	11.250 ns

Minimum Row Precharge Time (tRPmin):	11.250 ns
Minimum Active to Precharge Time (tRASmin):	23.750 ns
Supported Module Timing at 1600.0 MHz:	16-18-18-38
Minimum Active to Active/Refresh Time (tRCmin):	35.000 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):	24.000 ns
Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.500 ns
Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.000 ns

Bus

PCI Bus #0

AMD Zen - Root Complex

[General Information]

Device Name:	AMD Zen - Root Complex
Original Device Name:	AMD Zen - Root Complex
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1450&SUBSYS_14501022&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standard)systemgerente
Driver Description:	PCI Standard-Host-CPU-Bridge
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1450&SUBSYS_14501022&REV_00\3&11583659&0&00
Location Paths	PCIROOT(0)#PCI(0000)

AMD Zen - IOMMU

[General Information]

Device Name:	AMD Zen - IOMMU
Original Device Name:	AMD Zen - IOMMU
Device Class:	IOMMU
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:0:2
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1451&SUBSYS_14511022&REV_00
[System Resources]	
Interrupt Line:	N/A
Interrupt Pin:	N/A
[Features]	
Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

AMD Zen - PCIe Dummy Host Bridge

Device Name:	AMD Zen - PCIe Dummy Host Bridge
Original Device Name:	AMD Zen - PCIe Dummy Host Bridge
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:1:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00
[System Resources]	
Interrupt Line:	N/A
Interrupt Pin:	N/A
[Features]	
Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]	
Driver Manufacturer:	(Standard)systemgerente
Driver Description:	PCI Standard-Host-CPU-Bridge
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00\3&11583659&0&08
Location Paths	PCIROOT(0)#PCI(0100)

AMD Zen - PCIe GPP Bridge

[General Information]	
Device Name:	AMD Zen - PCIe GPP Bridge
Original Device Name:	AMD Zen - PCIe GPP Bridge
Device Class:	PCI-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:1:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1453&SUBSYS_00000000&REV_00

[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
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	256 bytes

[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:	(Standardssystemgeröte)
Driver Description:	PCI Express-Stammport
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1453&SUBSYS_14531022&REV_00\3&11583659&0&09
Location Paths	PCIROOT(0)#PCI(0101)

PCI Express x4 Bus #1

Samsung Electronics, Device ID: A808

[General Information]

Device Name:	Samsung Electronics, Device ID: A808
Original Device Name:	Samsung Electronics, Device ID: A808
Device Class:	NVMe Controller
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	1:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_144D&DEV_A808&SUBSYS_A801144D&REV_00

[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:	L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	F7900000

[Features]

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

[Driver Information]

Driver Manufacturer:	Samsung Electronics Co., Ltd
Driver Description:	Samsung NVMe Controller
Driver Provider:	Samsung Electronics Co., Ltd
Driver Version:	3.0.0.1802
Driver Date:	12-Feb-2018
DeviceInstanceId	PCI\VEN_144D&DEV_A808&SUBSYS_A801144D&REV_00\4&2EEC526C&0&0009
Location Paths	PCIROOT(0)#PCI(0101)#PCI(0000)

AMD Zen - PCIe GPP Bridge

[General Information]

Device Name:	AMD Zen - PCIe GPP Bridge
Original Device Name:	AMD Zen - PCIe GPP Bridge
Device Class:	PCI-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:1:3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1453&SUBSYS_00000000&REV_00

[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
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	>4 us
L1 Exit Latency:	16 - 32 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[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:	(Standardssystemgerte)
Driver Description:	PCI Express-Stammport
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1453&SUBSYS_14531022&REV_00\3&11583659&0&0B
Location Paths	PCIROOT(0)#PCI(0103)

PCI Express x4 Bus #2

AMD 400-Series Chipset - USB Controller A

[General Information]

Device Name:	AMD 400-Series Chipset - USB Controller A
Original Device Name:	AMD 400-Series Chipset - USB Controller A
Device Class:	USB xHCI Controller
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	2:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43D0&SUBSYS_11421B21&REV_01

[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:	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:	1 - 2 us
L1 Exit Latency:	16 - 32 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	F77A0000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable
USB Version Supported:	3.1

[Driver Information]

Driver Manufacturer:	Generischer USB-xHCI-Hostcontroller
Driver Description:	USB-xHCI-kompatibler Hostcontroller

Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	10-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_43D0&SUBSYS_11421B21&REV_01\4&288C77C7&0&000B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0000)

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] : No Device Connected

[Port8] : No Device Connected

[Port9] : No Device Connected

[Port10] : No Device Connected

[Port11] : No Device Connected

[Port12] : No Device Connected

[Port13] : No Device Connected

[Port14] : No Device Connected

[Port15] : No Device Connected

[Port16] : No Device Connected

[Port17] : USB-Massenspeicherger⚡t

[Device Information]

Device Manufacturer:	Hitachi-LG Data Storage Inc
Product Name:	Portable Super Multi Drive
Serial Number:	KOI5PG5159
USB Version Supported:	2.00
USB Device Speed:	USB 2.0 High-speed
Driver Description:	USB-Massenspeicherger⚡t
Hardware ID:	USB\VID_0E8D&PID_1887

[Driver Information]

Driver Manufacturer:	Kompatibles USB-Speicherger⚡t
Driver Description:	USB-Massenspeicherger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_0E8D&PID_1887\KOI5PG5159_____
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0000)#USBROOT(0)#USB(17)

[Port18] : No Device Connected

[Port19] : No Device Connected

[Port20] : No Device Connected

[Port21] : No Device Connected

[Port22] : No Device Connected

AMD 400-Series Chipset - SATA Controller

[General Information]

Device Name:	AMD 400-Series Chipset - SATA Controller
Original Device Name:	AMD 400-Series Chipset - SATA Controller
Device Class:	SATA AHCI Controller
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	2:0:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C8&SUBSYS_10621B21&REV_01

[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:	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:	1 - 2 us
L1 Exit Latency:	16 - 32 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTB#
Memory Base Address 5	F7780000

[Features]

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

[SATA Host Controller]

Interface Speed Supported:	Gen3 6.0 Gbps
Number Of Ports:	8
External SATA Support:	Capable
Aggressive Link Power Management:	Capable
Staggered Spin-up:	Capable
Mechanical Presence Switch:	Not Capable
Command Queue Acceleration:	Capable
64-bit Addressing:	Capable
AHCI Status:	Enabled
AHCI Version:	1.31
Ports Implemented:	0, 1, 2, 3, 4, 5, 6, 7

[SATA Port#0]

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

[SATA Port#1]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[SATA Port#2]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[SATA Port#3]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[SATA Port#4]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[SATA Port#5]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[SATA Port#6]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[SATA Port#7]

Port Status:	No Device Present
External SATA Port:	Not Capable
Hot Plug:	Not Capable

[Driver Information]

Driver Manufacturer:	Standardm❖❖iger SATA AHCI- Controller
Driver Description:	Standardm❖❖iger SATA AHCI- Controller
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_43C8&SUBSYS_10621B21&REV_01\4&288C77C7&0&010B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0001)

AMD 400-Series Chipset - PCIe Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Function
Original Device Name:	AMD 400-Series Chipset - PCIe Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	2:0:2
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C6&SUBSYS_00000000&REV_01

[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:	Upstream Port of PCI Express Switch
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:	1 - 2 us
L1 Exit Latency:	16 - 32 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ5
Interrupt Pin:	INTC#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	Upstream-Switchport für PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_43C6&SUBSYS_02011B21&REV_01\4&288C77C7&0&020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)

PCI Express x4 Bus #3

AMD 400-Series Chipset - PCIe Downstream Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Original Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	3:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C7&SUBSYS_00000000&REV_01

[PCI Express]

Version:	2.0
Maximum Link Width:	1x
Current Link Width:	Not negotiated
Maximum Link Speed:	5.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Downstream Port of PCI Express Switch
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	26.000 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:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ11
Interrupt Pin:	INTA#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	Downstream-Switchport für PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_43C7&SUBSYS_33061B21&REV_01\5&27CB58C2&0&00020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0000)

PCI Express x1 Bus #4

AMD 400-Series Chipset - PCIe Downstream Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Original Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	3:1:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C7&SUBSYS_00000000&REV_01

[PCI Express]

Version:	2.0
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	5.0 GT/s
Current Link Speed:	2.5 GT/s

Device/Port Type:	Downstream Port of PCI Express Switch
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	26.000 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:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ10
Interrupt Pin:	INTA#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	Downstream-Switchport für PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_43C7&SUBSYS_33061B21&REV_01\5&27CB58C2&0&08020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0100)

PCI Express x1 Bus #5

AMD 400-Series Chipset - PCIe Downstream Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Original Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	3:2:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C7&SUBSYS_00000000&REV_01

[PCI Express]

Version:	2.0
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	5.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Downstream Port of PCI Express Switch
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	26.000 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:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ5
Interrupt Pin:	INTA#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	Downstream-Switchport för PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceID	PCI\VEN_1022&DEV_43C7&SUBSYS_33061B21&REV_01\5&27CB58C2&0&10020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0200)

PCI Express x1 Bus #6

AMD 400-Series Chipset - PCIe Downstream Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Original Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	3:3:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C7&SUBSYS_00000000&REV_01

[PCI Express]

Version:	2.0
Maximum Link Width:	1x
Current Link Width:	1x
Maximum Link Speed:	5.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Downstream Port of PCI Express Switch
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	26.000 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:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ4
Interrupt Pin:	INTA#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	Downstream-Switchport für PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceID	PCI\VEN_1022&DEV_43C7&SUBSYS_33061B21&REV_01\5&27CB58C2&0&18020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0300)

PCI Express x1 Bus #7

Intel I211AT Copper (Pearsonville) Network Adapter

[General Information]

Device Name:	Intel I211AT Copper (Pearsonville) Network Adapter
Original Device Name:	Intel I211AT Copper (Pearsonville) Network Adapter
Device Class:	Ethernet Adapter
Revision ID:	3
PCI Address (Bus:Device:Function) Number:	7:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_1539&SUBSYS_E0001458&REV_03

[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:	1 - 2 us
L1 Exit Latency:	8 - 16 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	F7600000
I/O Base Address 2	0
Memory Base Address 3	F7620000

[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) I211 Gigabit Network Connection
Driver Provider:	Intel
Driver Version:	12.15.184.0
Driver Date:	10-Oct-2017
DeviceInstanceId	PCI\VEN_8086&DEV_1539&SUBSYS_E0001458&REV_03\E0D55EFFFFAD507F00
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0300)#PCI(0000)

AMD 400-Series Chipset - PCIe Downstream Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Original Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	3:4:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C7&SUBSYS_00000000&REV_01

[PCI Express]

Version:	2.0
Maximum Link Width:	4x
Current Link Width:	Not negotiated
Maximum Link Speed:	5.0 GT/s
Current Link Speed:	2.5 GT/s
Device/Port Type:	Downstream Port of PCI Express Switch
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	26.000 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:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ11
Interrupt Pin:	INTA#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemger�te)
Driver Description:	Downstream-Switchport f�r PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_43C7&SUBSYS_33061B21&REV_01\5&27CB58C2&0&20020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0400)

PCI Express x4 Bus #8

AMD 400-Series Chipset - PCIe Downstream Function

[General Information]

Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Original Device Name:	AMD 400-Series Chipset - PCIe Downstream Function
Device Class:	PCI-to-PCI Bridge
Revision ID:	1
PCI Address (Bus:Device:Function) Number:	3:9:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_43C7&SUBSYS_00000000&REV_01

[PCI Express]

Version:	3.0
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:	Downstream Port of PCI Express Switch
Slot Implemented:	Yes
Hot-Plug:	Not Capable
Hot-Plug Surprise:	Not Capable
Slot Power Limit:	26.000 W
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	IRQ10
Interrupt Pin:	INTA#

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	Downstream-Switchport für PCI-Express
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_43C7&SUBSYS_33061B21&REV_01\5&27CB58C2&0&48020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0900)

PCI Express x2 Bus #9

ASMedia ASM1143 USB 3.1 xHCI Controller

[General Information]

Device Name:	ASMedia ASM1143 USB 3.1 xHCI Controller
Original Device Name:	ASMedia ASM1143 USB 3.1 xHCI Controller
Device Class:	USB xHCI Controller
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	9:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1B21&DEV_1343&SUBSYS_50071458&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:	Disabled
L0s Exit Latency:	1 - 2 us
L1 Exit Latency:	>64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	512 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTA#
Memory Base Address 0	F7500000

[Features]

Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable
USB Version Supported:	3.0

[Driver Information]

Driver Manufacturer:	Generischer USB-xHCI-Hostcontroller
Driver Description:	USB-xHCI-kompatibler Hostcontroller
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	10-Apr-2018
DeviceInstanceId	PCI\VEN_1B21&DEV_1343&SUBSYS_50071458&REV_00\6&14D706F0&0&0048020B
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0900)#PCI(0000)

USB Root Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

AMD Zen - PCIe Dummy Host Bridge

[General Information]

Device Name:	AMD Zen - PCIe Dummy Host Bridge
Original Device Name:	AMD Zen - PCIe Dummy Host Bridge
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:2:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Brocke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00\3&11583659&0&10
Location Paths	PCIROOT(0)#PCI(0200)

AMD Zen - PCIe Dummy Host Bridge

[General Information]

Device Name:	AMD Zen - PCIe Dummy Host Bridge
Original Device Name:	AMD Zen - PCIe Dummy Host Bridge
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:3:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Brocke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00\3&11583659&0&18
Location Paths	PCIROOT(0)#PCI(0300)

AMD Zen - PCIe GPP Bridge

[General Information]

Device Name:	AMD Zen - PCIe GPP Bridge
Original Device Name:	AMD Zen - PCIe GPP Bridge
Device Class:	PCI-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:3:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1453&SUBSYS_00000000&REV_00

[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
Emergency Power Reduction:	Not Supported
Active State Power Management (ASPM) Support:	L1
Active State Power Management (ASPM) Status:	Disabled
L0s Exit Latency:	>4 us
L1 Exit Latency:	32 - 64 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	256 bytes

[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:	(Standardssystemgeröte)
Driver Description:	PCI Express-Stammport
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1453&SUBSYS_14531022&REV_00\3&11583659&0&19
Location Paths	PCIROOT(0)#PCI(0301)

PCI Express x16 Bus #10

NVIDIA GeForce GTX 1080 Ti (GP102-350)

[General Information]

Device Name:	NVIDIA GeForce GTX 1080 Ti (GP102-350)
Original Device Name:	NVIDIA GeForce GTX 1080 Ti (GP102-350)
Device Class:	VGA Compatible Adapter
Revision ID:	A1
PCI Address (Bus:Device:Function) Number:	10:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_10DE&DEV_1B06&SUBSYS_1B0610DE&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
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	IRQ54
Interrupt Pin:	INTA#
Memory Base Address 0	F6000000
Memory Base Address 1	E0000000
Memory Base Address 3	F0000000
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 1080 Ti
Driver Provider:	NVIDIA
Driver Version:	25.21.14.1634 (GeForce 416.34)
Driver Date:	10-Oct-2018
DeviceInstanceId	PCI\VEN_10DE&DEV_1B06&SUBSYS_1B0610DE&REV_A1\4&1C3D25BB&0&0019
Location Paths	PCIROOT(0)#PCI(0301)#PCI(0000)

NVIDIA GP102 - High Definition Audio Controller

[General Information]

Device Name:	NVIDIA GP102 - High Definition Audio Controller
Original Device Name:	NVIDIA GP102 - High Definition Audio Controller
Device Class:	Mixed mode device

Revision ID:	A1
PCI Address (Bus:Device:Function) Number:	10:0:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_10DE&DEV_10EF&SUBSYS_1B0610DE&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:	Disabled
L0s Exit Latency:	256 - 512 ns
L1 Exit Latency:	2 - 4 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	IRQ55
Interrupt Pin:	INTB#
Memory Base Address 0	F7080000

[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-Controller
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	11-Apr-2018
DeviceInstanceId	PCI\VEN_10DE&DEV_10EF&SUBSYS_1B0610DE&REV_A1\4&1C3D25BB&0&0119
Location Paths	PCIROOT(0)#PCI(0301)#PCI(0001)

AMD Zen - PCIe Dummy Host Bridge

[General Information]

Device Name:	AMD Zen - PCIe Dummy Host Bridge
Original Device Name:	AMD Zen - PCIe Dummy Host Bridge
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:4:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardsystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Bröcke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00\3&11583659&0&20
Location Paths	PCIROOT(0)#PCI(0400)

AMD Zen - PCIe Dummy Host Bridge

[General Information]

Device Name:	AMD Zen - PCIe Dummy Host Bridge
Original Device Name:	AMD Zen - PCIe Dummy Host Bridge
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:7:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardsystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Bröcke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00\3&11583659&0&38
Location Paths	PCIROOT(0)#PCI(0700)

AMD Zen - Internal PCIe GPP Bridge 0 to Bus B/C

[General Information]

Device Name:	AMD Zen - Internal PCIe GPP Bridge 0 to Bus B/C
Original Device Name:	AMD Zen - Internal PCIe GPP Bridge 0 to Bus B/C
Device Class:	PCI-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:7:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1454&SUBSYS_00000000&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	256 bytes

[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:	(Standardssystemgeröte)
Driver Description:	PCI Express-Stammport
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1454&SUBSYS_14541022&REV_00\3&11583659&0&39
Location Paths	PCIROOT(0)#PCI(0701)

PCI Express x16 Bus #11

AMD Zen - PCIe Dummy Function

[General Information]

Device Name:	AMD Zen - PCIe Dummy Function
Original Device Name:	AMD Zen - PCIe Dummy Function
Device Class:	Non-Essential Instrumentation Function
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	11:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_145A&SUBSYS_145A1022&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	N/A
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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:	Advanced Micro Devices
Driver Description:	AMD PCI
Driver Provider:	Advanced Micro Devices
Driver Version:	1.0.0.55
Driver Date:	17-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_145A&SUBSYS_145A1022&REV_00\4&C93BEE2&0&0039
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0000)

AMD Zen - Cryptographic Coprocessor PSPCPP

[General Information]

Device Name:	AMD Zen - Cryptographic Coprocessor PSPCPP
Original Device Name:	AMD Zen - Cryptographic Coprocessor PSPCPP
Device Class:	Unknown En/Decryption
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	11:0:2
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1456&SUBSYS_14561022&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTB#
Memory Base Address 2	F7400000
Memory Base Address 5	F73FE000

[Features]

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

[Driver Information]

Driver Manufacturer:	Advanced Micro Devices Inc.
Driver Description:	AMD PSP 3.0 Device
Driver Provider:	Advanced Micro Devices Inc.
Driver Version:	4.5.0.0
Driver Date:	17-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_1456&SUBSYS_14561022&REV_00\4&C93BEE2&0&0239

AMD Zen - Reserved

[General Information]

Device Name:	AMD Zen - Reserved
Original Device Name:	AMD Zen - Reserved
Device Class:	USB xHCI Controller
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	11:0:3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_145F&SUBSYS_50071458&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTC#
Memory Base Address 0	F7200000

[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:	Generischer USB-xHCI-Hostcontroller
Driver Description:	USB-xHCI-kompatibler Hostcontroller
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	10-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_145F&SUBSYS_50071458&REV_00\4&C93BEE2&0&0339
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)

USB Root Hub

[Port1] : USB-Verbundgerät

[Device Information]

Device Manufacturer:	HyperX Alloy Elite RGB
Product Name:	HyperX Alloy Elite RGB
Serial Number:	N/A
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-Verbundger⚡t
Hardware ID:	USB\VID_0951&PID_16BE

[Driver Information]

Driver Manufacturer:	(Standard-USB-Hostcontroller)
Driver Description:	USB-Verbundger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_0951&PID_16BE\6&96B9906&0&1
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)#USBROOT(0)#USB(1)

[Port2] : No Device Connected

[Port3] : USB-Verbundger⚡t

[Device Information]

Device Manufacturer:	Cosair
Product Name:	Corsair VOID PRO Surround USB Adapter
Serial Number:	00000000
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-Verbundger⚡t
Hardware ID:	USB\VID_1B1C&PID_0A18

[Driver Information]

Driver Manufacturer:	(Standard-USB-Hostcontroller)
Driver Description:	USB-Verbundger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1B1C&PID_0A18\00000000
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)#USBROOT(0)#USB(3)

[Port4] : USB-Verbundger⚡t

[Device Information]

Device Manufacturer:	ROCCAT
Product Name:	ROCCAT Kone Aimo
Serial Number:	N/A
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-Verbundger⚡t
Hardware ID:	USB\VID_1E7D&PID_2E27

[Driver Information]

Driver Manufacturer:	(Standard-USB-Hostcontroller)
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Driver Description:	USB-Verbundgert
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1E7D&PID_2E27\6&96B9906&0&4
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)#USBROOT(0)#USB(4)

[Port5] : No Device Connected

[Port6] : No Device Connected

[Port7] : No Device Connected

[Port8] : No Device Connected

AMD Zen - PCIe Dummy Host Bridge

[General Information]

Device Name:	AMD Zen - PCIe Dummy Host Bridge
Original Device Name:	AMD Zen - PCIe Dummy Host Bridge
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:8:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardsystemgerte)
Driver Description:	PCI Standard-Host-CPU-Brcke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1452&SUBSYS_00000000&REV_00\3&11583659&0&40
Location Paths	PCIROOT(0)#PCI(0800)

AMD Zen - Internal PCIe GPP Bridge 0 to Bus B/C

[General Information]

Device Name:	AMD Zen - Internal PCIe GPP Bridge 0 to Bus B/C
Original Device Name:	AMD Zen - Internal PCIe GPP Bridge 0 to Bus B/C
Device Class:	PCI-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:8:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1454&SUBSYS_00000000&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	512 bytes
Maximum Payload Size:	256 bytes

[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:	(Standardssystemgeröte)
Driver Description:	PCI Express-Stammport
Driver Provider:	Microsoft
Driver Version:	10.0.17134.254
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1454&SUBSYS_14541022&REV_00\3&11583659&0&41
Location Paths	PCIROOT(0)#PCI(0801)

PCI Express x16 Bus #12

AMD Zen - PCIe Dummy Function

[General Information]

Device Name:	AMD Zen - PCIe Dummy Function
Original Device Name:	AMD Zen - PCIe Dummy Function
Device Class:	Non-Essential Instrumentation Function
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	12:0:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1455&SUBSYS_14551022&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[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:	Advanced Micro Devices
Driver Description:	AMD PCI
Driver Provider:	Advanced Micro Devices
Driver Version:	1.0.0.55
Driver Date:	17-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_1455&SUBSYS_14551022&REV_00\4&2B9CC193&0&0041
Location Paths	PCIROOT(0)#PCI(0801)#PCI(0000)

AMD FCH - SATA AHCI Controller (MS)

[General Information]

Device Name:	AMD FCH - SATA AHCI Controller (MS)
Original Device Name:	AMD FCH - SATA AHCI Controller (MS)
Device Class:	SATA AHCI Controller
Revision ID:	51
PCI Address (Bus:Device:Function) Number:	12:0:2
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_7901&SUBSYS_B0021458&REV_51

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTB#
Memory Base Address	5F7808000

[Features]

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

[SATA Host Controller]

Interface Speed Supported:	Gen3 6.0 Gbps
Number Of Ports:	2
External SATA Support:	Capable
Aggressive Link Power Management:	Capable
Staggered Spin-up:	Not Capable
Mechanical Presence Switch:	Capable
Command Queue Acceleration:	Capable
64-bit Addressing:	Capable
AHCI Status:	Enabled
AHCI Version:	1.31
Ports Implemented:	0, 1

[SATA Port#0]

Port Status:	No Device Present
External SATA Port:	Capable
Hot Plug:	Not Capable

[SATA Port#1]

Port Status:	No Device Present
External SATA Port:	Capable
Hot Plug:	Not Capable

[Driver Information]

Driver Manufacturer:	Standardm❖❖iger SATA AHCI- Controller
Driver Description:	Standardm❖❖iger SATA AHCI- Controller
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_7901&SUBSYS_B0021458&REV_51\4&2B9CC193&0&0241
Location Paths	PCIROOT(0)#PCI(0801)#PCI(0002)

AMD Zen - HD Audio Controller

[General Information]

Device Name:	AMD Zen - HD Audio Controller
Original Device Name:	AMD Zen - HD Audio Controller
Device Class:	Mixed mode device
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	12:0:3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1457&SUBSYS_A0C31458&REV_00

[PCI Express]

Version:	3.0
Maximum Link Width:	16x
Current Link Width:	16x
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:	< 64 ns
L1 Exit Latency:	< 1 us
Maximum Payload Size Supported:	256 bytes
Maximum Payload Size:	256 bytes

[System Resources]

Interrupt Line:	IRQ43
Interrupt Pin:	INTC#
Memory Base Address 0	F78F8000

[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-Controller
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	11-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_1457&SUBSYS_A0C31458&REV_00\4&2B9CC193&0&0341
Location Paths	PCIROOT(0)#PCI(0801)#PCI(0003)

AMD Carrizo FCH - SMBus and ACPI Controller

[General Information]

Device Name:	AMD Carrizo FCH - SMBus and ACPI Controller
Original Device Name:	AMD Carrizo FCH - SMBus and ACPI Controller
Device Class:	SMBus (System Management Bus)
Revision ID:	59
PCI Address (Bus:Device:Function) Number:	0:20:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_790B&SUBSYS_50011458&REV_59

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	Advanced Micro Devices, Inc
Driver Description:	AMD SMBus
Driver Provider:	Advanced Micro Devices, Inc
Driver Version:	5.12.0.38
Driver Date:	17-Apr-2018
DeviceInstanceId	PCI\VEN_1022&DEV_790B&SUBSYS_50011458&REV_59\3&11583659&0&A0
Location Paths	PCIROOT(0)#PCI(1400)

AMD Carrizo FCH - LPC Bridge

[General Information]

Device Name:	AMD Carrizo FCH - LPC Bridge
Original Device Name:	AMD Carrizo FCH - LPC Bridge
Device Class:	PCI-to-ISA Bridge
Revision ID:	51
PCI Address (Bus:Device:Function) Number:	0:20:3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_790E&SUBSYS_50011458&REV_51

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgerete)
Driver Description:	PCI Standard-ISA-Bridge
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_790E&SUBSYS_50011458&REV_51\3&11583659&0&A3
Location Paths	PCIROOT(0)#PCI(1403)

AMD Zen - Data Fabric: Function 0

[General Information]

Device Name:	AMD Zen - Data Fabric: Function 0
Original Device Name:	AMD Zen - Data Fabric: Function 0
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1460&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgerete)
Driver Description:	PCI Standard-Host-CPU-Bridge
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1460&SUBSYS_00000000&REV_00\3&11583659&0&C0
Location Paths	PCIROOT(0)#PCI(1800)

AMD Zen - Data Fabric: Function 1

[General Information]

Device Name:	AMD Zen - Data Fabric: Function 1
Original Device Name:	AMD Zen - Data Fabric: Function 1
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1461&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Bröcke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1461&SUBSYS_00000000&REV_00\3&11583659&0&C1
Location Paths	PCIROOT(0)#PCI(1801)

AMD Zen - Data Fabric: Function 2

[General Information]

Device Name:	AMD Zen - Data Fabric: Function 2
Original Device Name:	AMD Zen - Data Fabric: Function 2
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:2
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1462&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Bröcke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1462&SUBSYS_00000000&REV_00\3&11583659&0&C2
Location Paths	PCIROOT(0)#PCI(1802)

AMD Zen - Data Fabric: Function 3

[General Information]

Device Name:	AMD Zen - Data Fabric: Function 3
Original Device Name:	AMD Zen - Data Fabric: Function 3
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1463&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgernte)
Driver Description:	PCI Standard-Host-CPU-Brocke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1463&SUBSYS_00000000&REV_00\3&11583659&0&C3
Location Paths	PCIROOT(0)#PCI(1803)

AMD Zen - Data Fabric: Function 4

[General Information]

Device Name:	AMD Zen - Data Fabric: Function 4
Original Device Name:	AMD Zen - Data Fabric: Function 4
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:4
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1464&SUBSYS_00000000&REV_00

[System Resources]

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

[Features]

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

[Driver Information]

Driver Manufacturer:	(Standardssystemgernte)
Driver Description:	PCI Standard-Host-CPU-Brocke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1464&SUBSYS_00000000&REV_00\3&11583659&0&C4
Location Paths	PCIROOT(0)#PCI(1804)

AMD Zen - Data Fabric: Function 5

[General Information]

Device Name:	AMD Zen - Data Fabric: Function 5
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Original Device Name:	AMD Zen - Data Fabric: Function 5
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:5
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1465&SUBSYS_00000000&REV_00
[System Resources]	
Interrupt Line:	N/A
Interrupt Pin:	N/A
[Features]	
Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable
[Driver Information]	
Driver Manufacturer:	(Standard)systemgate
Driver Description:	PCI Standard-Host-CPU-Bridge
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1465&SUBSYS_00000000&REV_00\3&11583659&0&C5
Location Paths	PCIROOT(0)#PCI(1805)

AMD Zen - Data Fabric: Function 6

[General Information]	
Device Name:	AMD Zen - Data Fabric: Function 6
Original Device Name:	AMD Zen - Data Fabric: Function 6
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:6
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1466&SUBSYS_00000000&REV_00
[System Resources]	
Interrupt Line:	N/A
Interrupt Pin:	N/A
[Features]	
Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable
[Driver Information]	
Driver Manufacturer:	(Standard)systemgate
Driver Description:	PCI Standard-Host-CPU-Bridge
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1466&SUBSYS_00000000&REV_00\3&11583659&0&C6
Location Paths	PCIROOT(0)#PCI(1806)

AMD Zen - Data Fabric: Function 7

[General Information]	
Device Name:	AMD Zen - Data Fabric: Function 7

Original Device Name:	AMD Zen - Data Fabric: Function 7
Device Class:	Host-to-PCI Bridge
Revision ID:	0
PCI Address (Bus:Device:Function) Number:	0:24:7
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_1022&DEV_1467&SUBSYS_00000000&REV_00
[System Resources]	
Interrupt Line:	N/A
Interrupt Pin:	N/A
[Features]	
Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable
[Driver Information]	
Driver Manufacturer:	(Standardssystemgeröte)
Driver Description:	PCI Standard-Host-CPU-Brocke
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	PCI\VEN_1022&DEV_1467&SUBSYS_00000000&REV_00\3&11583659&0&C7
Location Paths	PCIROOT(0)#PCI(1807)

Video Adapter

NVIDIA GeForce GTX 1080 Ti

[Video chipset]	
Video Chipset:	NVIDIA GeForce GTX 1080 Ti
Video Chipset Codename:	GP102-350
Video Memory:	11264 MBytes of GDDR5X SDRAM [Micron]
[Video Card]	
Video Card:	NVIDIA GeForce GTX 1080 Ti (GP102-350) [NVIDIA]
Video Bus:	PCIe v3.0 x16 (8.0 GT/s) @ x16 (2.5 GT/s)
Video RAMDAC:	Integrated RAMDAC
Video BIOS Version:	86.02.40.00.49
Video Chipset Revision:	A1
[Performance]	
Processor Clock:	139.0 MHz
Video Unit Clock:	544.0 MHz
Memory Clock:	101.3 MHz (Effective 810.0 MHz)
Memory Bus Width:	352-bit
Number Of ROPs:	88
Number Of Unified Shaders:	3584
Number Of TMUs (Texture Mapping Units):	224
NVIDIA SLI Capability:	Capable
NVIDIA SLI Status:	Not Present
Hardware ID:	PCI\VEN_10DE&DEV_1B06&SUBSYS_1B0610DE&REV_A1
PCI Location (Bus:Dev:Fnc):	10:00:0

[Driver Information]

Driver Manufacturer:	NVIDIA
Driver Description:	NVIDIA GeForce GTX 1080 Ti
Driver Provider:	NVIDIA
Driver Version:	25.21.14.1634 (GeForce 416.34)
Driver Date:	10-Oct-2018
DeviceInstanceId	PCI\VEN_10DE&DEV_1B06&SUBSYS_1B0610DE&REV_A1\4&1C3D25BB&0&0019
Location Paths	PCIROOT(0)#PCI(0301)#PCI(0000)

Monitor

Acer [Unknown Model: ACR02FF]

[General information]

Monitor Name:	Acer [Unknown Model: ACR02FF]
Monitor Name (Manuf):	G246HL
Serial Number:	LWAE0088520
Date Of Manufacture:	Week: 27, Year: 2012
Monitor Hardware ID:	Monitor\ACR02FF
Max. Vertical Size:	30 cm
Max. Horizontal Size:	53 cm
Horizontal Frequency:	30 - 80 kHz
Vertical Frequency:	55 - 76 Hz
Maximum Pixel Clock:	170 MHz

[Advanced parameters]

Input Signal:	Digital
Display Type:	RGB color
Gamma Factor:	2.20

[DPMS Modes]

Standby:	Supported
Suspend:	Supported
Active Off:	Not Supported
Standard Colour Space:	Not Supported
Preferred Timing Mode:	Supported
Default GTF Supported:	Not Supported
DFP 1.x Compatible:	No

[Supported Video Modes]

1152 x 864	75 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1280 x 720	60 Hz
1280 x 800	60 Hz
1440 x 900	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz
1920 x 1080	531 x 299 mm, Pixel Clock 148.50 MHz

Drives

(S)ATA/ATAPI Drives

Samsung SSD 970 EVO 500GB

Drive Model:	Samsung SSD 970 EVO 500GB
Drive Serial Number:	S466NB0K801118F
Drive Firmware Revision:	1B2QEXE7
NVMe Version Supported:	v1.3
Drive Capacity:	476,940 MBytes (500 GB)
Drive Capacity [MB]:	476940

[Capabilities]

Volatile Write Cache:	Present
Compare Command:	Supported
Write Uncorrectable Command:	Supported
Dataset Management:	Supported
Write Zeroes:	Supported
Save field set to a non-zero value:	Supported
Reservations:	Not Supported
Timestamp:	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:	38  C
Warning Temperature Threshold:	85  C
Critical Temperature Threshold:	85  C
Time Above Warning Temperature Threshold:	0 minutes
Time Above Critical Temperature Threshold:	0 minutes
Spare Capacity Available:	100%
Device Health:	100%
Power Cycles:	74
Power On Hours:	209 hours
Unsafe Shutdowns:	11
Media Errors:	0
Total Host Reads:	2498 GBytes
Total Host Writes:	1391 GBytes

TOSHIBA HDWD110

[General Information]

Drive Controller:	Serial ATA 6Gb/s @ 6Gb/s
Drive Model:	TOSHIBA HDWD110
Drive Firmware Revision:	MS20A8J0
Drive Serial Number:	68IR95WNS
World Wide Name:	500039FD6F4692C
Drive Capacity:	953,869 MBytes (1000 GB)
Drive Capacity [MB]:	953869
Media Rotation Rate:	7200 RPM
Nominal Form Factor:	3.5"
ATA Major Version Supported:	ATA/ATAPI-5, ATA/ATAPI-6, ATA/ATAPI-7, ATA8-ACS

ATA Minor Version Supported:
ATA Transport Version Supported:

ATA8-ACS version 4
SATA 3.0

[Drive Geometry]

Number of Cylinders:	16383
Number of Heads:	16
Sectors Per Track:	63
Number Of ECC Bytes:	56
Number of Sectors:	16514064
Total 32-bit LBA Sectors:	268435455
Total 48-bit LBA Sectors:	1953525168
Logical Sector Size:	512 Bytes
Cache Buffer Size:	N/A
Controller Type:	Dual Ported, Multiple Sector Buffer, Read Cache

[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
Native Command Queuing:	Supported, Max. Depth: 32
TRIM Command:	Not Supported

[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, Inactive
Packet Interface:	Not Present, Disabled
Look-Ahead Buffer:	Present, Active
Host Protected Area:	Present, Enabled
Power-Up In Standby:	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, Disabled
In-Order Data Delivery:	Supported, Disabled
Hardware Feature Control:	Not Supported
Software Settings Preservation:	Supported, Enabled
NCQ Autosense:	Not 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:	Not Supported
CFast Specification:	Not Supported
NCQ Priority Information:	Supported
Host Automatic Partial to Slumber Transitions:	Not Supported
Device Automatic Partial to Slumber Transitions:	Not Supported
NCQ Streaming:	Not Supported
NCQ Queue Management Command:	Not Supported

DevSleep to Reduced Power State:	Not Supported
Extended Power Conditions Feature:	Supported, Enabled
Sense Data Reporting Feature:	Not Supported
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:	Not Supported
Sanitize Feature:	Not Supported
Sanitize Device - Crypto Scramble:	Not Supported
Sanitize Device - Overwrite:	Not Supported
Sanitize Device - Block Erase:	Not Supported
Sanitize Device - Antifreeze Lock:	Not Supported
Device Encrypts All User Data:	Not Supported
Trusted Computing:	Not Supported

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

[01] Raw Read Error Rate:	100/16, Worst: 100
[02] Throughput Performance:	142/54, Worst: 142 (Data = 69,0)
[03] Spin Up Time:	129/24, Worst: 129 (Data = 11731121,3)
[04] Start/Stop Count:	100/Always OK, Worst: 100 (Data = 98,0)
[05] Reallocated Sector Count:	100/5, Worst: 100
[07] Seek Error Rate:	100/67, Worst: 100
[08] Seek Time Performance:	113/20, Worst: 113 (Data = 35,0)
[09] Power-On Hours/Cycle Count:	100/Always OK, Worst: 100 (225 hours / 9.4 days)
[0A] Spin Retry Count:	100/60, Worst: 100
[0C] Power Cycle Count:	100/Always OK, Worst: 100 (Data = 65,0)
[C0] Power-Off Retract Count:	100/Always OK, Worst: 100 (Data = 98,0)
[C1] Load/Unload Cycle Count:	100/Always OK, Worst: 100 (Data = 98,0)
[C2] Temperature	193/Always OK, Worst: 193 (31.0  C)
[C4] Reallocation Event Count:	100/Always OK, Worst: 100
[C5] Current Pending Sector Count:	100/Always OK, Worst: 100
[C6] Off-Line Uncorrectable Sector Count:	100/Always OK, Worst: 100
[C7] UltraDMA/SATA CRC Error Rate:	200/Always OK, Worst: 200

[Device Statistics]

Lifetime Power-On Resets:	65
Power-on Hours:	225
Logical Sectors Written:	515418511
Logical Sectors Read:	14437507598
Number of Write Commands:	2204441
Number of Read Commands:	2329589
Spindle Motor Power-on Hours:	215
Head Flying Hours:	215
Head Load Events:	98
Number of Reallocated Logical Sectors:	0
Read Recovery Attempts:	1
Number of Mechanical Start Failures:	2
Number of Reported Uncorrectable Errors:	0
Resets Between Command Acceptance and Completion:	0
Current Temperature:	31  C
Average Short Term Temperature:	30  C
Average Long Term Temperature :	29  C
Operating Temperature Range:	0 - 60  C
Lifetime Temperature:	19 - 40  C
Lifetime Average Short Term Temperature:	25 - 36  C
Lifetime Average Long Term Temperature:	25 - 35  C
Time in Under-Temperature:	0 minutes
Time in Over-Temperature:	0 minutes

Number of Hardware Resets:	669
Number of ASR Events:	533
Number of Interface CRC Errors:	0

Audio

NVIDIA GP102 - High Definition Audio Controller

Audio Adapter:	NVIDIA GP102 - High Definition Audio Controller
Audio Controller Hardware ID:	PCI\VEN_10DE&DEV_10EF&SUBSYS_1B0610DE&REV_A1
High Definition Audio Codec:	nVidia
Audio Codec Hardware ID:	HDAUDIO\FUNC_01&VEN_10DE&DEV_0082&SUBSYS_00000000
[Driver Information]	
Driver Manufacturer:	NVIDIA
Driver Description:	NVIDIA High Definition Audio
Driver Provider:	NVIDIA Corporation
Driver Version:	1.3.37.5
Driver Date:	26-Jun-2018
DeviceInstanceId	HDAUDIO\FUNC_01&VEN_10DE&DEV_0082&SUBSYS_10DE1B06&REV_1001\5&CB5F72B&0&0001

AMD Zen - HD Audio Controller

Audio Adapter:	AMD Zen - HD Audio Controller
Audio Controller Hardware ID:	PCI\VEN_1022&DEV_1457&SUBSYS_A0C31458&REV_00
High Definition Audio Codec:	RealTek
Audio Codec Hardware ID:	HDAUDIO\FUNC_01&VEN_10EC&DEV_1220&SUBSYS_00000000
[Driver Information]	
Driver Manufacturer:	Microsoft
Driver Description:	High Definition Audio-Ge ✦ t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.319
Driver Date:	07-Sep-2018
DeviceInstanceId	HDAUDIO\FUNC_01&VEN_10EC&DEV_1220&SUBSYS_1458A0C3&REV_1001\5&2D267199&0&0001

Network

Intel I211AT Copper (Pearsonville) Network Adapter

[General information]	
Network Card:	Intel I211AT Copper (Pearsonville) Network Adapter
Vendor Description:	Intel(R) I211 Gigabit Network Connection
MAC Address:	E0-D5-5E-AD-50-7F
[Capabilities]	

Maximum Link Speed:	1000 Mbps
Transmit Buffer Size:	1550336 Bytes
Receive Buffer Size:	779264 Bytes
Hardware ID:	PCI\VEN_8086&DEV_1539&SUBSYS_E0001458&REV_03

[Driver Information]

Driver Manufacturer:	Intel
Driver Description:	Intel(R) I211 Gigabit Network Connection
Driver Provider:	Intel
Driver Version:	12.15.184.0
Driver Date:	10-Oct-2017
DeviceInstanceId	PCI\VEN_8086&DEV_1539&SUBSYS_E0001458&REV_03\E0D55EFFFFAD507F00
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0002)#PCI(0300)#PCI(0000)

Ports

Serial Ports

Parallel Ports

USB

USB-xHCI-kompatibler Hostcontroller

Root Hub

[Port1] : USB-Verbundger t

[Device Information]

Device Manufacturer:	HyperX Alloy Elite RGB
Product Name:	HyperX Alloy Elite RGB
Serial Number:	N/A
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-Verbundger�t
Hardware ID:	USB\VID_0951&PID_16BE

[Driver Information]

Driver Manufacturer:	(Standard-USB-Hostcontroller)
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Driver Description:	USB-Verbundger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_0951&PID_16BE\6&96B9906&0&1
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)#USBROOT(0)#USB(1)

[Port2] : No Device Connected

[Port3] : USB-Verbundger⚡t

[Device Information]

Device Manufacturer:	Cosair
Product Name:	Corsair VOID PRO Surround USB Adapter
Serial Number:	00000000
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-Verbundger⚡t
Hardware ID:	USB\VID_1B1C&PID_0A18

[Driver Information]

Driver Manufacturer:	(Standard-USB-Hostcontroller)
Driver Description:	USB-Verbundger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1B1C&PID_0A18\00000000
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)#USBROOT(0)#USB(3)

[Port4] : USB-Verbundger⚡t

[Device Information]

Device Manufacturer:	ROCCAT
Product Name:	ROCCAT Kone Aimo
Serial Number:	N/A
USB Version Supported:	2.00
USB Device Speed:	USB 1.1 Full-speed
Driver Description:	USB-Verbundger⚡t
Hardware ID:	USB\VID_1E7D&PID_2E27

[Driver Information]

Driver Manufacturer:	(Standard-USB-Hostcontroller)
Driver Description:	USB-Verbundger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_1E7D&PID_2E27\6&96B9906&0&4
Location Paths	PCIROOT(0)#PCI(0701)#PCI(0003)#USBROOT(0)#USB(4)

[Port5] : No Device Connected

[Port6] : No Device Connected

[Port7] : No Device Connected

[Port8] : No Device Connected

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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] : No Device Connected

[Port8] : No Device Connected

[Port9] : No Device Connected

[Port10] : No Device Connected

[Port11] : No Device Connected

[Port12] : No Device Connected

[Port13] : No Device Connected

[Port14] : No Device Connected

[Port15] : No Device Connected

[Port16] : No Device Connected

[Port17] : USB-Massenspeicherger✧t

[Device Information]

Device Manufacturer:	Hitachi-LG Data Storage Inc
Product Name:	Portable Super Multi Drive
Serial Number:	KOPI5PG5159
USB Version Supported:	2.00
USB Device Speed:	USB 2.0 High-speed
Driver Description:	USB-Massenspeicherger✧t

Hardware ID:	USB\VID_0E8D&PID_1887
[Driver Information]	
Driver Manufacturer:	Kompatibles USB-Speicherger⚡t
Driver Description:	USB-Massenspeicherger⚡t
Driver Provider:	Microsoft
Driver Version:	10.0.17134.1
Driver Date:	21-Jun-2006
DeviceInstanceId	USB\VID_0E8D&PID_1887\KOP15PG5159_____
Location Paths	PCIROOT(0)#PCI(0103)#PCI(0000)#USBROOT(0)#USB(17)

[Port18] : No Device Connected

[Port19] : No Device Connected

[Port20] : No Device Connected

[Port21] : No Device Connected

[Port22] : No Device Connected

USB-xHCI-kompatibler Hostcontroller

Root Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected
