

CPU-Z TXT Report

Binaries

CPU-Z version 2.08.1

Processors

CPU Groups 1
CPU Group 0 6 threads, mask=0x3F
Number of sockets 1
Number of threads 6

APICs

Socket 0

-- Core 0 (ID 0)
 -- Thread 0 0
-- Core 1 (ID 1)
 -- Thread 1 1
-- Core 2 (ID 2)
 -- Thread 2 2
-- Core 3 (ID 3)
 -- Thread 3 3
-- Core 4 (ID 4)
 -- Thread 4 4
-- Core 5 (ID 5)
 -- Thread 5 5

Timers

ACPI timer 3.580 MHz
Perf timer 10.000 MHz
Sys timer 1.000 KHz

Processors Information

Socket 1 ID = 0

Number of cores	6 (max 6)
Number of threads	6 (max 6)
Manufacturer	AuthenticAMD
Name	AMD FX-6300
Codename	Vishera
Specification	AMD FX(tm)-6300 Six-Core Processor
Package	Socket AM3+ (942)
CPUID	F.2.0
Extended CPUID	15.2
Core Stepping	OR-C0
Technology	32 nm
TDP Limit	95.0 Watts
Core Speed	3816.8 MHz
Multiplier x Bus Speed	19.0 x 200.9 MHz
Base frequency (cores)	200.9 MHz
Base frequency (mem.)	200.9 MHz
Rated Bus speed	2209.7 MHz
Stock frequency	3500 MHz
Instructions sets	MMX (+), SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, SSE4A, x86-64, AMD-V, AES, AVX, XOP, FMA3, FMA4
Microcode Revision	0x6000852
L1 Data cache	6 x 16 KB (4-way, 64-byte line)
L1 Instruction cache	3 x 64 KB (2-way, 64-byte line)
L2 cache	3 x 2 MB (16-way, 64-byte line)
L3 cache	8 MB (64-way, 64-byte line)
Max CPUID level	0000000Dh
Max CPUID ext. level	8000001Eh
FID/VID Control	yes
Min FID	7.0x
# of P-States	7
P-State	FID 0x19 - VID 0x10 - IDD 17 (20.50x - 1.350 V)
P-State	FID 0x16 - VID 0x17 - IDD 17 (19.00x - 1.262 V)
P-State	FID 0x13 - VID 0x1F - IDD 12 (17.50x - 1.162 V)
P-State	FID 0xE - VID 0x25 - IDD 9 (15.00x - 1.087 V)
P-State	FID 0x9 - VID 0x2B - IDD 7 (12.50x - 1.012 V)
P-State	FID 0x4 - VID 0x32 - IDD 6 (10.00x - 0.925 V)
P-State	FID 0x10C - VID 0x3A - IDD 4 (7.00x - 0.825 V)
PStateReg	0x800001A8-0x00002019
PStateReg	0x800001A8-0x00002E16
PStateReg	0x80000174-0x00003E13
PStateReg	0x8000015E-0x00004A0E
PStateReg	0x8000014A-0x00005609
PStateReg	0x80000138-0x00006404
PStateReg	0x80000125-0x0000744C

```

PStateReg          0x00000000-0x00000000

Package Type       0x1
Model              00
String 1           0x0
String 2           0x0
Page               0x0
Base TDP           13 Watts
Boosted P-States 2
Max non-turbo ratio 17.50x
Max turbo ratio    20.50x
Attached device     PCI device at bus 0, device 24,
function 0
    100  00000000 00000000 00000000 00000000
    110  00000000 00000000 00000000 00000000
    120  00000000 00000000 00000000 00000000
    130  000000C1 00000000 00000000 00000000
    140  00000000 00000000 00000000 00000000
    150  00073900 00000000 00000000 00000000
    160  00000000 00000000 00000000 0066E066
    170  00000009 00000000 00000000 00000000
    180  00000000 00000000 00000000 00000000
    190  00000000 00000000 00000000 00000000
    1A0  80000003 00000000 00000000 00000000
    1B0  00000000 00000000 00000000 00000000
    1C0  00000000 00000000 00000000 00000000
    1D0  00000000 00000000 00000000 0000003E
    1E0  00000000 00000000 00000000 00000000
    1F0  00000000 00000000 00000000 00000000

Attached device     PCI device at bus 0, device 24,
function 1
    100  00000000 00000000 00000000 00000000
    110  00000000 00000000 00000000 00000000
    120  00000000 00000086 00000000 00000000
    130  00000000 00000000 00000000 00000000
    140  00000000 00000000 00000000 00000000
    150  00000000 00000000 00000000 00000000
    160  00000000 00000000 00000000 00000000
    170  00000000 00000000 00000000 00000000
    180  00000000 00000000 00000000 00000000
    190  00000000 00000000 00000000 00000000
    1A0  00000000 00000000 00000000 00000000
    1B0  00000000 00000000 00000000 00000000
    1C0  00000000 00000000 00000000 00000000
    1D0  00000000 00000000 00000000 00000000
    1E0  00000000 00000000 00000000 00000000
    1F0  00000000 00000000 00000000 00000000

Attached device     PCI device at bus 0, device 24,
function 2
    100  00000000 00003E51 00000000 00000000

```

110	000005C4	00000000	044CA424	0CE00F41
120	00713EA1	00000000	00000000	00000000
130	05A847B9	9506E12E	58898D30	8246608F
140	00000001	00000109	00000000	00000000
150	00000000	00000000	00000000	00000000
160	01F83EE0	00000000	00000000	00000000
170	00000000	00000000	00020000	18240118
180	0000000A	00800004	3C000000	00020000
190	0B010000	0F580892	8D0F4007	00000000
1A0	031D0200	00000000	00000000	00000000
1B0	0FC39001	480F7D26	00000000	00000000
1C0	00000000	00000000	00000000	00000000
1D0	00000000	00000000	00000000	00000000
1E0	00000000	00000000	00000000	00000000
1F0	00000000	00000000	00000000	00000000

Attached device PCI device at bus 0, device 24,
function 3

100	00000000	00000000	00000000	00000000
110	00000000	00000000	00000000	00000000
120	00000000	00000000	00000000	00000000
130	00000000	00000000	00000000	00000000
140	00A11755	00000055	0000C12A	00000000
150	00000000	00000000	00000000	00000000
160	C01A0FFE	00000000	C01A0FFE	00000000
170	C01A0FFE	00000000	00000000	00000009
180	017003E3	00000000	08000210	00000008
190	00000000	00000000	00780400	00000000
1A0	00034144	00000000	00000000	00000000
1B0	33003004	00000000	08141000	00000000
1C0	00000000	0003CCCC	00000000	00000100
1D0	00000000	00000000	002B170F	00000000
1E0	00000000	80001387	00000000	00000000
1F0	00080000	00000000	00000000	004C074F

Attached device PCI device at bus 0, device 24,
function 4

100	00000000	00000321	00000000	0085014C
110	000FE001	00000000	0107000B	00000000
120	00000000	00000000	00000500	00000000
130	00000000	00000000	00000000	00000000
140	1159C931	0000034D	23A2DC39	0000079D
150	00000B68	00B4B490	00000000	00000089
160	00600F20	00000003	00000000	00000277
170	00000000	00000000	00000000	00000000
180	E000530F	00001005	00000000	00000000
190	00000000	00000000	00000000	00000000
1A0	00000018	00000000	00000000	00000000
1B0	00000000	00000000	00350182	00000000
1C0	00000100	00000110	00000090	00000090
1D0	00080000	0000FFFF	00000000	00000000
1E0	0B502019	0B502E16	0AE83E13	0ABC4A0E

1F0 0A945609 0A706404 0A4A744C 00000000

Attached device PCI device at bus 0, device 24,
function 5

100	00000000	00000000	00000000	00000000
110	00000000	00000000	00000000	00000000
120	00001111	80000000	0000913A	00000000
130	00000000	00000000	00000000	00000000
140	00000000	00000000	00000000	00000000
150	00000000	00000000	00000000	00000000
160	0000800D	00000000	00000000	00000000
170	00000608	00020030	00000000	00000000
180	00000000	00000000	00000000	00000000
190	2233457A	0000000B	00202020	00000000
1A0	00000000	00000000	00000000	00000000
1B0	00000000	00000000	00000000	00000000
1C0	00000000	00000000	00000000	00000000
1D0	00000000	00000000	00000000	00000000
1E0	00000000	00000000	00000000	00000000
1F0	00000000	00000000	00000000	00000000

Temperature 0 53 degC (126 degF) (Package)
Temperature 1 53 degC (126 degF) (Cores)
Power 00 33.20 W (Package)
Clock Speed 0 3816.80 MHz (Core #0)
Clock Speed 1 3816.80 MHz (Core #1)
Clock Speed 2 3816.80 MHz (Core #2)
Clock Speed 3 3816.80 MHz (Core #3)
Clock Speed 4 3816.80 MHz (Core #4)
Clock Speed 5 3816.80 MHz (Core #5)
Core 0 max ratio 20.50 (effective 20.50)
Core 1 max ratio 20.50 (effective 20.50)
Core 2 max ratio 20.50 (effective 20.50)
Core 3 max ratio 20.50 (effective 20.50)
Core 4 max ratio 20.50 (effective 20.50)
Core 5 max ratio 20.50 (effective 20.50)

Thread dumps

CPU Thread 0

APIC ID 0
Topology Processor ID 0, Core ID 0, Thread ID 0
Cache descriptor Level 1, D, 16 KB, 1 thread(s)
Cache descriptor Level 1, I, 64 KB, 2 thread(s)
Cache descriptor Level 2, U, 2 MB, 2 thread(s)
Cache descriptor Level 3, U, 8 MB, 6 thread(s)

CPUID

0x00000000	0x0000000D	0x68747541	0x444D4163	0x69746E65
0x00000001	0x00600F20	0x00060800	0x3E98320B	0x178BFBFF
0x00000002	0x00000000	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x00000000	0x00000000	0x00000000	0x00000000
0x00000005	0x00000040	0x00000040	0x00000003	0x00000000
0x00000006	0x00000000	0x00000000	0x00000001	0x00000000
0x00000007	0x00000000	0x00000008	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000D	0x00000007	0x00000340	0x000003C0	0x40000000
0x0000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x80000000	0x8000001E	0x68747541	0x444D4163	0x69746E65
0x80000001	0x00600F20	0x10000000	0x01EB3FFF	0x2FD3FBFF
0x80000002	0x20444D41	0x74285846	0x362D296D	0x20303033
0x80000003	0x2D786953	0x65726F43	0x6F725020	0x73736563
0x80000004	0x2020726F	0x20202020	0x20202020	0x00202020
0x80000005	0xFF40FF18	0xFF40FF30	0x10040140	0x40020140
0x80000006	0x64006400	0x64004200	0x08008140	0x0040C140
0x80000007	0x00000000	0x00000000	0x00000000	0x000007D9
0x80000008	0x00003030	0x00001000	0x00004005	0x00000000
0x80000009	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000A	0x00000001	0x00010000	0x00000000	0x00001CFF
0x8000000B	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000E	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000F	0x00000000	0x00000000	0x00000000	0x00000000
0x80000010	0x00000000	0x00000000	0x00000000	0x00000000
0x80000011	0x00000000	0x00000000	0x00000000	0x00000000
0x80000012	0x00000000	0x00000000	0x00000000	0x00000000
0x80000013	0x00000000	0x00000000	0x00000000	0x00000000
0x80000014	0x00000000	0x00000000	0x00000000	0x00000000
0x80000015	0x00000000	0x00000000	0x00000000	0x00000000
0x80000016	0x00000000	0x00000000	0x00000000	0x00000000
0x80000017	0x00000000	0x00000000	0x00000000	0x00000000
0x80000018	0x00000000	0x00000000	0x00000000	0x00000000
0x80000019	0xF040F018	0x64006400	0x00000000	0x00000000
0x8000001A	0x00000003	0x00000000	0x00000000	0x00000000
0x8000001B	0x000000FF	0x00000000	0x00000000	0x00000000
0x8000001C	0x00000000	0x80032013	0x00010200	0x8000000F
0x8000001D	0x00000121	0x00C0003F	0x0000003F	0x00000000
0x8000001D	0x00004122	0x0040003F	0x000001FF	0x00000000
0x8000001D	0x00004143	0x03C0003F	0x000007FF	0x00000001
0x8000001D	0x00014163	0x0FC0003F	0x000007FF	0x00000001
0x8000001E	0x00000010	0x00000100	0x00000000	0x00000000
MSR 0x0000001B	0x00000000	0xFEE00900		
MSR 0xC0010114	0x00000000	0x00000018		
MSR 0xC0010061	0x00000000	0x00000040		

MSR 0xC0010062	0x00000000	0x00000000
MSR 0xC0010063	0x00000000	0x00000000
MSR 0xC0010064	0x800001A8	0x00002019
MSR 0xC0010065	0x800001A8	0x00002E16
MSR 0xC0010066	0x80000174	0x00003E13
MSR 0xC0010067	0x8000015E	0x00004A0E
MSR 0xC0010068	0x8000014A	0x00005609
MSR 0xC0010058	0x00000000	0xE0000021
MSR 0xC0010015	0x00000000	0x09000011
MSR 0xC001001F	0x00404000	0x00810008
MSR 0xC0010071	0x02000006	0x40023E13
MSR 0xC0010070	0x00000000	0x40023E13

CPU Thread 1

APIC ID	1
Topology	Processor ID 0, Core ID 1, Thread ID 0
Cache descriptor	Level 1, D, 16 KB, 1 thread(s)
Cache descriptor	Level 1, I, 64 KB, 2 thread(s)
Cache descriptor	Level 2, U, 2 MB, 2 thread(s)
Cache descriptor	Level 3, U, 8 MB, 6 thread(s)

CPUID

0x00000000	0x0000000D	0x68747541	0x444D4163	0x69746E65
0x00000001	0x00600F20	0x01060800	0x3E98320B	0x178BFBFF
0x00000002	0x00000000	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x00000000	0x00000000	0x00000000	0x00000000
0x00000005	0x00000040	0x00000040	0x00000003	0x00000000
0x00000006	0x00000000	0x00000000	0x00000001	0x00000000
0x00000007	0x00000000	0x00000008	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000D	0x00000007	0x00000340	0x000003C0	0x40000000
0x0000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x80000000	0x8000001E	0x68747541	0x444D4163	0x69746E65
0x80000001	0x00600F20	0x10000000	0x01EBBFFF	0x2FD3FBFF
0x80000002	0x20444D41	0x74285846	0x362D296D	0x20303033
0x80000003	0x2D786953	0x65726F43	0x6F725020	0x73736563
0x80000004	0x2020726F	0x20202020	0x20202020	0x00202020
0x80000005	0xFF40FF18	0xFF40FF30	0x10040140	0x40020140
0x80000006	0x64006400	0x64004200	0x08008140	0x0040C140
0x80000007	0x00000000	0x00000000	0x00000000	0x000007D9
0x80000008	0x00003030	0x00001000	0x00004005	0x00000000
0x80000009	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000A	0x00000001	0x00010000	0x00000000	0x00001CFF
0x8000000B	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000E	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000F	0x00000000	0x00000000	0x00000000	0x00000000

0x80000010	0x00000000	0x00000000	0x00000000	0x00000000
0x80000011	0x00000000	0x00000000	0x00000000	0x00000000
0x80000012	0x00000000	0x00000000	0x00000000	0x00000000
0x80000013	0x00000000	0x00000000	0x00000000	0x00000000
0x80000014	0x00000000	0x00000000	0x00000000	0x00000000
0x80000015	0x00000000	0x00000000	0x00000000	0x00000000
0x80000016	0x00000000	0x00000000	0x00000000	0x00000000
0x80000017	0x00000000	0x00000000	0x00000000	0x00000000
0x80000018	0x00000000	0x00000000	0x00000000	0x00000000
0x80000019	0xF040F018	0x64006400	0x00000000	0x00000000
0x8000001A	0x00000003	0x00000000	0x00000000	0x00000000
0x8000001B	0x000000FF	0x00000000	0x00000000	0x00000000
0x8000001C	0x00000000	0x80032013	0x00010200	0x8000000F
0x8000001D	0x00000121	0x00C0003F	0x0000003F	0x00000000
0x8000001D	0x00004122	0x0040003F	0x000001FF	0x00000000
0x8000001D	0x00004143	0x03C0003F	0x000007FF	0x00000001
0x8000001D	0x00014163	0x0FC0003F	0x000007FF	0x00000001
0x8000001E	0x00000011	0x00000100	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0xC0010114	0x00000000	0x00000018
MSR 0xC0010061	0x00000000	0x00000040
MSR 0xC0010062	0x00000000	0x00000000
MSR 0xC0010063	0x00000000	0x00000000
MSR 0xC0010064	0x800001A8	0x00002019
MSR 0xC0010065	0x800001A8	0x00002E16
MSR 0xC0010066	0x80000174	0x00003E13
MSR 0xC0010067	0x8000015E	0x00004A0E
MSR 0xC0010068	0x8000014A	0x00005609
MSR 0xC0010058	0x00000000	0xE0000021
MSR 0xC0010015	0x00000000	0x09000011
MSR 0xC001001F	0x00404000	0x00810008
MSR 0xC0010071	0x01000006	0x40012E16
MSR 0xC0010070	0x00000000	0x40012E16

CPU Thread 2

APIC ID	2
Topology	Processor ID 0, Core ID 2, Thread ID 0
Cache descriptor	Level 1, D, 16 KB, 1 thread(s)
Cache descriptor	Level 1, I, 64 KB, 2 thread(s)
Cache descriptor	Level 2, U, 2 MB, 2 thread(s)
Cache descriptor	Level 3, U, 8 MB, 6 thread(s)

CPUID

0x00000000	0x0000000D	0x68747541	0x444D4163	0x69746E65
0x00000001	0x00600F20	0x02060800	0x3E98320B	0x178BFBFF
0x00000002	0x00000000	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x00000000	0x00000000	0x00000000	0x00000000
0x00000005	0x00000040	0x00000040	0x00000003	0x00000000
0x00000006	0x00000000	0x00000000	0x00000001	0x00000000
0x00000007	0x00000000	0x00000008	0x00000000	0x00000000

0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000D	0x00000007	0x00000340	0x000003C0	0x40000000
0x0000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x80000000	0x8000001E	0x68747541	0x444D4163	0x69746E65
0x80000001	0x00600F20	0x10000000	0x01EB3FFF	0x2FD3FBFF
0x80000002	0x20444D41	0x74285846	0x362D296D	0x20303033
0x80000003	0x2D786953	0x65726F43	0x6F725020	0x73736563
0x80000004	0x2020726F	0x20202020	0x20202020	0x00202020
0x80000005	0xFF40FF18	0xFF40FF30	0x10040140	0x40020140
0x80000006	0x64006400	0x64004200	0x08008140	0x0040C140
0x80000007	0x00000000	0x00000000	0x00000000	0x000007D9
0x80000008	0x00003030	0x00001000	0x00004005	0x00000000
0x80000009	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000A	0x00000001	0x00010000	0x00000000	0x00001CFF
0x8000000B	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000E	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000F	0x00000000	0x00000000	0x00000000	0x00000000
0x80000010	0x00000000	0x00000000	0x00000000	0x00000000
0x80000011	0x00000000	0x00000000	0x00000000	0x00000000
0x80000012	0x00000000	0x00000000	0x00000000	0x00000000
0x80000013	0x00000000	0x00000000	0x00000000	0x00000000
0x80000014	0x00000000	0x00000000	0x00000000	0x00000000
0x80000015	0x00000000	0x00000000	0x00000000	0x00000000
0x80000016	0x00000000	0x00000000	0x00000000	0x00000000
0x80000017	0x00000000	0x00000000	0x00000000	0x00000000
0x80000018	0x00000000	0x00000000	0x00000000	0x00000000
0x80000019	0xF040F018	0x64006400	0x00000000	0x00000000
0x8000001A	0x00000003	0x00000000	0x00000000	0x00000000
0x8000001B	0x000000FF	0x00000000	0x00000000	0x00000000
0x8000001C	0x00000000	0x80032013	0x00010200	0x8000000F
0x8000001D	0x00000121	0x00C0003F	0x0000003F	0x00000000
0x8000001D	0x00004122	0x0040003F	0x000001FF	0x00000000
0x8000001D	0x00004143	0x03C0003F	0x000007FF	0x00000001
0x8000001D	0x00014163	0x0FC0003F	0x000007FF	0x00000001
0x8000001E	0x00000012	0x00000101	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0xC0010114	0x00000000	0x00000018
MSR 0xC0010061	0x00000000	0x00000040
MSR 0xC0010062	0x00000000	0x00000000
MSR 0xC0010063	0x00000000	0x00000000
MSR 0xC0010064	0x800001A8	0x00002019
MSR 0xC0010065	0x800001A8	0x00002E16
MSR 0xC0010066	0x80000174	0x00003E13
MSR 0xC0010067	0x8000015E	0x00004A0E
MSR 0xC0010068	0x8000014A	0x00005609
MSR 0xC0010058	0x00000000	0xE0000021

MSR 0xC0010015	0x00000000	0x09000011
MSR 0xC001001F	0x00404000	0x00810008
MSR 0xC0010071	0x02000006	0x40023E13
MSR 0xC0010070	0x00000000	0x40023E13

CPU Thread 3

APIC ID	3
Topology	Processor ID 0, Core ID 3, Thread ID 0
Cache descriptor	Level 1, D, 16 KB, 1 thread(s)
Cache descriptor	Level 1, I, 64 KB, 2 thread(s)
Cache descriptor	Level 2, U, 2 MB, 2 thread(s)
Cache descriptor	Level 3, U, 8 MB, 6 thread(s)

CPUID

0x00000000	0x0000000D	0x68747541	0x444D4163	0x69746E65
0x00000001	0x00600F20	0x03060800	0x3E98320B	0x178BFBFF
0x00000002	0x00000000	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x00000000	0x00000000	0x00000000	0x00000000
0x00000005	0x00000040	0x00000040	0x00000003	0x00000000
0x00000006	0x00000000	0x00000000	0x00000001	0x00000000
0x00000007	0x00000000	0x00000008	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000D	0x00000007	0x00000340	0x000003C0	0x40000000
0x0000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x80000000	0x8000001E	0x68747541	0x444D4163	0x69746E65
0x80000001	0x00600F20	0x10000000	0x01EBBFFF	0x2FD3FBFF
0x80000002	0x20444D41	0x74285846	0x362D296D	0x20303033
0x80000003	0x2D786953	0x65726F43	0x6F725020	0x73736563
0x80000004	0x2020726F	0x20202020	0x20202020	0x00202020
0x80000005	0xFF40FF18	0xFF40FF30	0x10040140	0x40020140
0x80000006	0x64006400	0x64004200	0x08008140	0x0040C140
0x80000007	0x00000000	0x00000000	0x00000000	0x000007D9
0x80000008	0x00003030	0x00001000	0x00004005	0x00000000
0x80000009	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000A	0x00000001	0x00010000	0x00000000	0x00001CFF
0x8000000B	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000E	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000F	0x00000000	0x00000000	0x00000000	0x00000000
0x80000010	0x00000000	0x00000000	0x00000000	0x00000000
0x80000011	0x00000000	0x00000000	0x00000000	0x00000000
0x80000012	0x00000000	0x00000000	0x00000000	0x00000000
0x80000013	0x00000000	0x00000000	0x00000000	0x00000000
0x80000014	0x00000000	0x00000000	0x00000000	0x00000000
0x80000015	0x00000000	0x00000000	0x00000000	0x00000000
0x80000016	0x00000000	0x00000000	0x00000000	0x00000000
0x80000017	0x00000000	0x00000000	0x00000000	0x00000000

0x80000018	0x00000000	0x00000000	0x00000000	0x00000000
0x80000019	0xF040F018	0x64006400	0x00000000	0x00000000
0x8000001A	0x00000003	0x00000000	0x00000000	0x00000000
0x8000001B	0x000000FF	0x00000000	0x00000000	0x00000000
0x8000001C	0x00000000	0x80032013	0x00010200	0x8000000F
0x8000001D	0x00000121	0x00C0003F	0x0000003F	0x00000000
0x8000001D	0x00004122	0x0040003F	0x000001FF	0x00000000
0x8000001D	0x00004143	0x03C0003F	0x000007FF	0x00000001
0x8000001D	0x00014163	0x0FC0003F	0x000007FF	0x00000001
0x8000001E	0x00000013	0x00000101	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0xC0010114	0x00000000	0x00000018
MSR 0xC0010061	0x00000000	0x00000040
MSR 0xC0010062	0x00000000	0x00000000
MSR 0xC0010063	0x00000000	0x00000000
MSR 0xC0010064	0x800001A8	0x00002019
MSR 0xC0010065	0x800001A8	0x00002E16
MSR 0xC0010066	0x80000174	0x00003E13
MSR 0xC0010067	0x8000015E	0x00004A0E
MSR 0xC0010068	0x8000014A	0x00005609
MSR 0xC0010058	0x00000000	0xE0000021
MSR 0xC0010015	0x00000000	0x09000011
MSR 0xC001001F	0x00404000	0x00810008
MSR 0xC0010071	0x01000006	0x40022E13
MSR 0xC0010070	0x00000000	0x40012E16

CPU Thread 4

APIC ID 4

Topology Processor ID 0, Core ID 4, Thread ID 0

Cache descriptor Level 1, D, 16 KB, 1 thread(s)

Cache descriptor Level 1, I, 64 KB, 2 thread(s)

Cache descriptor Level 2, U, 2 MB, 2 thread(s)

Cache descriptor Level 3, U, 8 MB, 6 thread(s)

CPUID				
0x00000000	0x0000000D	0x68747541	0x444D4163	0x69746E65
0x00000001	0x00600F20	0x04060800	0x3E98320B	0x178BFBFF
0x00000002	0x00000000	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x00000000	0x00000000	0x00000000	0x00000000
0x00000005	0x00000040	0x00000040	0x00000003	0x00000000
0x00000006	0x00000000	0x00000000	0x00000001	0x00000000
0x00000007	0x00000000	0x00000008	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000D	0x00000007	0x00000340	0x000003C0	0x40000000
0x0000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x80000000	0x8000001E	0x68747541	0x444D4163	0x69746E65
0x80000001	0x00600F20	0x10000000	0x01EB3FFF	0x2FD3FBFF

0x80000002	0x20444D41	0x74285846	0x362D296D	0x20303033
0x80000003	0x2D786953	0x65726F43	0x6F725020	0x73736563
0x80000004	0x2020726F	0x20202020	0x20202020	0x00202020
0x80000005	0xFF40FF18	0xFF40FF30	0x10040140	0x40020140
0x80000006	0x64006400	0x64004200	0x08008140	0x0040C140
0x80000007	0x00000000	0x00000000	0x00000000	0x000007D9
0x80000008	0x00003030	0x00001000	0x00004005	0x00000000
0x80000009	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000A	0x00000001	0x00010000	0x00000000	0x00001CFF
0x8000000B	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000E	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000F	0x00000000	0x00000000	0x00000000	0x00000000
0x80000010	0x00000000	0x00000000	0x00000000	0x00000000
0x80000011	0x00000000	0x00000000	0x00000000	0x00000000
0x80000012	0x00000000	0x00000000	0x00000000	0x00000000
0x80000013	0x00000000	0x00000000	0x00000000	0x00000000
0x80000014	0x00000000	0x00000000	0x00000000	0x00000000
0x80000015	0x00000000	0x00000000	0x00000000	0x00000000
0x80000016	0x00000000	0x00000000	0x00000000	0x00000000
0x80000017	0x00000000	0x00000000	0x00000000	0x00000000
0x80000018	0x00000000	0x00000000	0x00000000	0x00000000
0x80000019	0xF040F018	0x64006400	0x00000000	0x00000000
0x8000001A	0x00000003	0x00000000	0x00000000	0x00000000
0x8000001B	0x000000FF	0x00000000	0x00000000	0x00000000
0x8000001C	0x00000000	0x80032013	0x00010200	0x8000000F
0x8000001D	0x00000121	0x00C0003F	0x0000003F	0x00000000
0x8000001D	0x00004122	0x0040003F	0x000001FF	0x00000000
0x8000001D	0x00004143	0x03C0003F	0x000007FF	0x00000001
0x8000001D	0x00014163	0x0FC0003F	0x000007FF	0x00000001
0x8000001E	0x00000014	0x00000102	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0xC0010114	0x00000000	0x00000018
MSR 0xC0010061	0x00000000	0x00000040
MSR 0xC0010062	0x00000000	0x00000000
MSR 0xC0010063	0x00000000	0x00000000
MSR 0xC0010064	0x800001A8	0x00002019
MSR 0xC0010065	0x800001A8	0x00002E16
MSR 0xC0010066	0x80000174	0x00003E13
MSR 0xC0010067	0x8000015E	0x00004A0E
MSR 0xC0010068	0x8000014A	0x00005609
MSR 0xC0010058	0x00000000	0xE0000021
MSR 0xC0010015	0x00000000	0x09000011
MSR 0xC001001F	0x00404000	0x00810008
MSR 0xC0010071	0x02000006	0x40023E13
MSR 0xC0010070	0x00000000	0x40023E13

CPU Thread 5

APIC ID

Topology

5

Processor ID 0, Core ID 5, Thread ID 0

Cache descriptor Level 1, D, 16 KB, 1 thread(s)
 Cache descriptor Level 1, I, 64 KB, 2 thread(s)
 Cache descriptor Level 2, U, 2 MB, 2 thread(s)
 Cache descriptor Level 3, U, 8 MB, 6 thread(s)

CPUID

0x00000000	0x0000000D	0x68747541	0x444D4163	0x69746E65
0x00000001	0x00600F20	0x05060800	0x3E98320B	0x178BFBFF
0x00000002	0x00000000	0x00000000	0x00000000	0x00000000
0x00000003	0x00000000	0x00000000	0x00000000	0x00000000
0x00000004	0x00000000	0x00000000	0x00000000	0x00000000
0x00000005	0x00000040	0x00000040	0x00000003	0x00000000
0x00000006	0x00000000	0x00000000	0x00000001	0x00000000
0x00000007	0x00000000	0x00000008	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000D	0x00000007	0x00000340	0x000003C0	0x40000000
0x0000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x80000000	0x8000001E	0x68747541	0x444D4163	0x69746E65
0x80000001	0x00600F20	0x10000000	0x01EBBFFF	0x2FD3FBFF
0x80000002	0x20444D41	0x74285846	0x362D296D	0x20303033
0x80000003	0x2D786953	0x65726F43	0x6F725020	0x73736563
0x80000004	0x2020726F	0x20202020	0x20202020	0x00202020
0x80000005	0xFF40FF18	0xFF40FF30	0x10040140	0x40020140
0x80000006	0x64006400	0x64004200	0x08008140	0x0040C140
0x80000007	0x00000000	0x00000000	0x00000000	0x000007D9
0x80000008	0x00003030	0x00001000	0x00004005	0x00000000
0x80000009	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000A	0x00000001	0x00010000	0x00000000	0x00001CFF
0x8000000B	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000C	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000D	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000E	0x00000000	0x00000000	0x00000000	0x00000000
0x8000000F	0x00000000	0x00000000	0x00000000	0x00000000
0x80000010	0x00000000	0x00000000	0x00000000	0x00000000
0x80000011	0x00000000	0x00000000	0x00000000	0x00000000
0x80000012	0x00000000	0x00000000	0x00000000	0x00000000
0x80000013	0x00000000	0x00000000	0x00000000	0x00000000
0x80000014	0x00000000	0x00000000	0x00000000	0x00000000
0x80000015	0x00000000	0x00000000	0x00000000	0x00000000
0x80000016	0x00000000	0x00000000	0x00000000	0x00000000
0x80000017	0x00000000	0x00000000	0x00000000	0x00000000
0x80000018	0x00000000	0x00000000	0x00000000	0x00000000
0x80000019	0xF040F018	0x64006400	0x00000000	0x00000000
0x8000001A	0x00000003	0x00000000	0x00000000	0x00000000
0x8000001B	0x000000FF	0x00000000	0x00000000	0x00000000
0x8000001C	0x00000000	0x80032013	0x00010200	0x8000000F
0x8000001D	0x00000121	0x00C0003F	0x0000003F	0x00000000
0x8000001D	0x00004122	0x0040003F	0x000001FF	0x00000000
0x8000001D	0x00004143	0x03C0003F	0x000007FF	0x00000001

```

0x8000001D      0x00014163 0x0FC0003F 0x000007FF 0x00000001
0x8000001E      0x00000015 0x00000102 0x00000000 0x00000000

```

```

MSR 0x0000001B      0x00000000 0xFEE00800
MSR 0xC0010114      0x00000000 0x00000018
MSR 0xC0010061      0x00000000 0x00000040
MSR 0xC0010062      0x00000000 0x00000000
MSR 0xC0010063      0x00000000 0x00000000
MSR 0xC0010064      0x800001A8 0x00002019
MSR 0xC0010065      0x800001A8 0x00002E16
MSR 0xC0010066      0x80000174 0x00003E13
MSR 0xC0010067      0x8000015E 0x00004A0E
MSR 0xC0010068      0x8000014A 0x00005609
MSR 0xC0010058      0x00000000 0xE0000021
MSR 0xC0010015      0x00000000 0x09000011
MSR 0xC001001F      0x00404000 0x00810008
MSR 0xC0010071      0x02000006 0x40023E13
MSR 0xC0010070      0x00000000 0x40023E13

```

BIOS

```

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```

```

UEFI                      Yes
BIOS Vendor                American Megatrends Inc.
BIOS MSG                   65-1801-000001-00101111-111213-RS760_SB710
BIOS Date                  11/12/13
Mainboard Vendor           000001
AMD AGESA                  OrochiPIV1.5.0.0

```

Chipset

```

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```

```

Northbridge               AMD 780G rev. 00
Southbridge               AMD SB700 rev. 00
Bus Specification         PCI-Express 2.0 (5.0 GT/s)
Graphic Interface         PCI-Express 3.0
PCI-E Link Width          x16 (max 16x)
PCI-E Link Speed          5.0 GT/s (max 8.0 GT/s)
Memory Type               DDR3
Memory Size               16 GBytes
Channels                  Dual
Memory Frequency          803.5 MHz (1:4)
CAS# latency (CL)         10.0
RAS# to CAS# delay (tRCD) 10
RAS# Precharge (tRP)      10
Cycle Time (tRAS)         30
Bank Cycle Time (tRC)     39
Uncore Frequency          2008.8 MHz

```

Memory SPD

```

-----
DIMM # 1
  SMBus address 0x50
  Memory type   DDR3
  Module format  UDIMM
  Module Manufacturer(ID) Kingston
(7F980000000000000000000000000000)
  Size 8192 MBytes
  Max bandwidth PC3-14200 (889 MHz)
  Part number KHX1866C10D3/8G
  Serial number 2420E887
  Manufacturing date Week 50/Year 16
  Number of banks 8
  Nominal Voltage 1.50 Volts
  EPP no
  XMP no
  AMP no
  EXPO no
JEDEC timings table CL-tRCD-tRP-tRAS-tRC @ frequency
JEDEC #1 5.0-6-5-15-21 @ 465 MHz
JEDEC #2 6.0-7-6-18-25 @ 558 MHz
JEDEC #3 7.0-8-7-21-30 @ 651 MHz
JEDEC #4 8.0-9-8-24-34 @ 744 MHz
JEDEC #5 9.0-10-10-27-38 @ 837 MHz
JEDEC #6 10.0-11-10-29-40 @ 888 MHz
JEDEC #7 11.0-11-10-29-40 @ 888 MHz
JEDEC #8 13.0-11-10-29-40 @ 888 MHz

DIMM # 2
  SMBus address 0x51
  Memory type   DDR3
  Module format  UDIMM
  Module Manufacturer(ID) Kingston
(7F980000000000000000000000000000)
  Size 4096 MBytes
  Max bandwidth PC3-12800J (800 MHz)
  Part number KHX1600C10D3/8G
  Serial number 6718B238
  Manufacturing date Week 33/Year 14
  Number of banks 8
  Nominal Voltage 1.50 Volts
  EPP no
  XMP no
  AMP no
  EXPO no
JEDEC timings table CL-tRCD-tRP-tRAS-tRC @ frequency
JEDEC #1 6.0-7-7-19-24 @ 480 MHz

```

JEDEC #2	7.0-7-7-21-27 @ 560 MHz
JEDEC #3	8.0-8-8-24-31 @ 640 MHz
JEDEC #4	9.0-9-9-27-35 @ 720 MHz
JEDEC #5	10.0-10-10-30-39 @ 800 MHz
JEDEC #6	11.0-10-10-30-39 @ 800 MHz

DIMM #	3
SMBus address	0x53
Memory type	DDR3
Module format	UDIMM
Module Manufacturer(ID)	Kingston
(7F980000000000000000000000000000)	
Size	4096 MBytes
Max bandwidth	PC3-12800J (800 MHz)
Part number	KHX1600C10D3/8G
Serial number	6A189B38
Manufacturing date	Week 33/Year 14
Number of banks	8
Nominal Voltage	1.50 Volts
EPP	no
XMP	no
AMP	no
EXPO	no
JEDEC timings table	CL-tRCD-tRP-tRAS-tRC @ frequency
JEDEC #1	6.0-7-7-19-24 @ 480 MHz
JEDEC #2	7.0-7-7-21-27 @ 560 MHz
JEDEC #3	8.0-8-8-24-31 @ 640 MHz
JEDEC #4	9.0-9-9-27-35 @ 720 MHz
JEDEC #5	10.0-10-10-30-39 @ 800 MHz
JEDEC #6	11.0-10-10-30-39 @ 800 MHz

DIMM #	1															
SPD registers																
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	92	11	0B	02	04	21	00	09	03	11	01	08	09	00	FE	02
10	56	78	5E	28	56	11	01	66	20	08	3C	3C	00	D8	83	01
20	00	00	CA	CE	1F	CE	CE	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	00	0F	11	21
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	01	98	07	16	50	24	20	E8	87	6F	01
80	4B	48	58	31	38	36	36	43	31	30	44	33	2F	38	47	20
90	20	20	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	5A

DIMM #	2
--------	---

SPD registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	92	11	0B	02	04	21	00	01	03	11	01	08	0A	00	FC	00
10	64	78	64	30	64	11	2C	81	20	08	3C	3C	00	F0	83	01
20	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	0F	11	20	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	01	98	07	14	33	67	18	B2	38	CE	04
80	4B	48	58	31	36	30	30	43	31	30	44	33	2F	38	47	20
90	20	20	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	5A

DIMM

3

SPD registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	92	11	0B	02	04	21	00	01	03	11	01	08	0A	00	FC	00
10	64	78	64	30	64	11	2C	81	20	08	3C	3C	00	F0	83	01
20	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	0F	11	20	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	01	98	07	14	33	6A	18	9B	38	CE	04
80	4B	48	58	31	36	30	30	43	31	30	44	33	2F	38	47	20
90	20	20	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	5A

Monitoring

Mainboard Model M5A78L-M/USB3 (0x00000344 - 0x950EBE73)

LPCIO

LPCIO Vendor ITE
LPCIO Model IT8728

```

LPCIO Vendor ID          0x90
LPCIO Chip ID            0x8728
LPCIO Revision ID        0x1
Config Mode I/O address  0x2E
Config Mode LDN           0x4
Config Mode registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    00 00 00 00 00 00 00 04 00 00 00 00 00 00 00
10    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
20    87 28 01 10 00 51 FF C0 80 80 00 08 06 00 00
30    01 00 00 00 00 00 00 00 00 00 00 00 00 00 00
40    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60    02 90 02 30 00 00 00 00 00 00 00 00 00 00 00
70    00 02 00 00 04 04 00 00 00 00 00 00 00 00 00
Register space           LPC, base address = 0x0290

```

Hardware Monitors

```

-----
Hardware monitor      ITE IT8728
Voltage 0             1.25 Volts [0x68] (CPU VCORE)
Voltage 1             1.66 Volts [0x8A] (VIN1)
Voltage 2             1.88 Volts [0x9D] (VIN2)
Voltage 3             1.99 Volts [0xA6] (VIN3)
Voltage 4             1.92 Volts [0xA0] (VIN4)
Voltage 5             2.93 Volts [0xF4] (VIN5)
Voltage 6             2.87 Volts [0xEF] (VIN6)
Voltage 7             2.36 Volts [0xC5] (VIN7)
Voltage 8             1.63 Volts [0x88] (VIN8)
Temperature 0         54 degC (129 degF) [0x36] (TMPIN0)
Temperature 1         38 degC (100 degF) [0x26] (TMPIN1)
Fan 0                 1611 RPM [0x1A3] (CPU)
Register space        LPC, base address = 0x0290

```

```

    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    11 06 F6 00 37 FF 07 37 FF 07 48 4F 00 A3 FF FF
10    BB FE E7 7F C7 80 80 80 01 FF FF E5 BE E7 E7 E7
20    6B 8A 9D A6 A0 F4 EF C5 88 36 26 80 80 0C FF FF
30    9E 5B EE EF FF F5 FF 77 FF EF F9 FF 96 ED F7 F5
40    FD FF BF E3 DF BF 5F 40 AD 6A D4 00 FF FF FF FF
50    1D 18 7F 7F 7F 40 00 00 90 00 3E 12 60 00 00 00
60    80 14 46 0C A0 41 0F FF 80 00 7F FF 00 41 0F FF
70    80 00 7F FF 00 41 0F FF FF FF FF FF FF FF FF
80    00 00 00 00 00 00 00 00 00 00 00 00 00 0F 00 09
90    FF 00 00 00 FF 00 00 00 40 00 00 00 00 B5 00 06
A0    3F 24 24 24 24 24 24 FF FF FF FF FF FF FF FF
B0    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
C0    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
D0    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

```

```

E0      FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
F0      FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

```

```

Hardware monitor      AMD ADL
Power 01              13.42 W (GPU)
Clock Speed 0         592.86 MHz [0x250] (Graphics)
Clock Speed 1         300.00 MHz [0x12C] (Memory)
Clock Speed 2         n.a. (Processor)

```

PCI Devices

```

-----
-----

```

```

Register space          PCI Express, base address =
0x0E0000000

```

```

Description              Host Bridge
Location                 bus 0 (0x00), device 0 (0x00), function 0
(0x00)

```

```

Common header
Vendor ID                0x1022 (AMD)
Model ID                0x9600
Revision ID              0x00
PI                      0x00
SubClass                 0x00
BaseClass                0x06
Cache Line              0x00
Latency                 0x00
Header                  0x00

```

```

PCI header
Subvendor ID            0x1043 (ASUSTeK)
Subsystem ID            0x8388
Int. Line               0x00
Int. Pin                0x00

```

```

PCI capability
Caps class              HyperTransport
Caps offset             0xC4
Caps revision           3.00
Interface type          Slave/Primary
Link 0 width (in/out) 16 bits/16 bits
Link 0 frequency 2200 MHz
Link 1 width (in/out) 8 bits/8 bits
Link 1 frequency 200 MHz

```

```

PCI capability
Caps class              HyperTransport
Caps offset             0x54
Interface type          Clumping

```

```

PCI capability
Caps class              HyperTransport
Caps offset             0x40
Interface type          Retry Mode

```

```

PCI capability
  Caps class      HyperTransport
  Caps offset     0x9C
  Interface type  Gen3
PCI capability
  Caps class      HyperTransport
  Caps offset     0xF8
  Interface type  Power Management
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 22 10 00 96 06 00 30 22 00 00 00 06 00 00 00
10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
20 00 00 00 00 00 00 00 00 00 00 00 00 43 10 88 83
30 00 00 00 00 C4 00 00 00 00 00 00 00 00 00 00
40 08 9C 00 C0 C1 00 00 00 40 00 00 00 42 20 05 00
50 43 10 88 83 08 40 00 90 08 10 05 00 08 00 00 00
60 7F 00 00 00 00 00 00 00 00 02 20 00 09 C0 86 81
70 00 00 00 00 00 00 00 00 48 93 0F 00 01 00 00 20
80 00 00 00 00 10 00 00 03 20 3A 00 00 31 20 00 00
90 00 00 00 C8 7F 00 00 00 00 00 00 00 08 F8 7C D0
A0 26 00 74 00 00 00 00 80 00 00 00 00 79 00 80 02
B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0 00 00 00 80 08 54 80 01 20 00 11 11 D0 00 00 00
D0 60 0C 75 1E 02 00 00 00 00 00 00 00 00 00 00 00
E0 00 00 00 00 FF FF FF FF 0C 02 00 00 00 00 00 0F
F0 00 00 00 00 00 80 80 00 08 00 00 E0 00 00 00 00

```

```

Description          PCI to PCI Bridge
Location             bus 0 (0x00), device 2 (0x02), function 0
(0x00)
Common header
  Vendor ID          0x1022 (AMD)
  Model ID           0x9603
  Revision ID        0x00
  PI                 0x00
  SubClass           0x04
  BaseClass          0x06
  Cache Line         0x10
  Latency            0x00
  Header             0x01
PCI header
  Primary bus        0x00
  Secondary bus      0x01
  Int. Line          0x0A
  Int. Pin           0x01
PCI capability
  Caps class         Power Management
  Caps offset        0x50
  Caps version       1.2
PCI capability
  Caps class         PCI Express
  Caps offset        0x58

```

```

Device type          Root Port of PCI-E Root Complex
Port                0
Caps version         2.0
Physical slot        #0
Presence detect      yes
Link width           16x (max 16x)
Link speed            5.0 GT/s (max 5.0 GT/s)
PCI capability
  Caps class          Message Signalled Interrupts
  Caps offset         0xA0
PCI capability
  Caps class          Subsystem Vendor
  Caps offset         0xB0
  SubVendor ID        0x1043 (ASUSTeK)
  SubSystem ID        0x8388
PCI capability
  Caps class          HyperTransport
  Caps offset         0xB8
  Interface type      MSI Mapping
PCI extended capability
  Caps class          Vendor Specific
  Caps offset         0x100
  Vendor              1
  Size                16
PCI extended capability
  Caps class          Virtual Channel
  Caps offset         0x110
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00  22 10 03 96 07 05 10 00 00 00 04 06 10 00 01 00
10  00 00 00 00 00 00 00 00 00 01 01 00 D1 D1 00 20
20  A0 FE A0 FE E1 CF F1 DF 00 00 00 00 00 00 00 00
30  00 00 00 00 50 00 00 00 00 00 00 00 0A 01 1B 00
40  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50  01 58 03 C8 00 00 00 00 10 A0 42 01 20 80 00 00
60  10 08 00 00 02 0D 30 00 40 00 02 F1 80 25 14 00
70  00 00 48 01 00 00 01 00 00 00 00 00 00 00 00 00
80  00 00 00 00 00 00 00 00 42 00 01 00 00 00 00 00
90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0  05 B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0  0D B8 00 00 43 10 88 83 08 00 03 A8 00 00 00 00
C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0  00 00 00 00 FF FF FF FF 00 00 00 00 00 00 00 00
F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100 0B 00 01 11 01 00 01 01 00 00 00 00 00 00 00 00
110 02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
120 01 00 00 00 FF 00 00 80 00 00 00 00 01 00 00 00
130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140 03 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
150 01 00 01 00 00 00 00 00 00 00 00 00 30 20 06 00
160 00 00 00 00 00 00 20 00 00 00 00 00 00 00 00 00

```

```

170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description                      PCI to PCI Bridge
Location                          bus 0 (0x00), device 7 (0x07), function 0
(0x00)
Common header
  Vendor ID                      0x1022 (AMD)
  Model ID                       0x9607
  Revision ID                    0x00
  PI                             0x00
  SubClass                       0x04
  BaseClass                     0x06
  Cache Line                    0x10
  Latency                       0x00
  Header                         0x01
PCI header
  Primary bus                    0x00
  Secondary bus                  0x02
  Int. Line                     0x0B
  Int. Pin                      0x01
PCI capability
  Caps class                    Power Management
  Caps offset                   0x50
  Caps version                  1.2
PCI capability
  Caps class                    PCI Express
  Caps offset                   0x58
  Device type                   Root Port of PCI-E Root Complex
  Port                         4
  Caps version                  2.0
  Physical slot                 #0
  Presence detect               yes
  Link width                    1x (max 1x)
  Link speed                    5.0 GT/s (max 5.0 GT/s)
PCI capability
  Caps class                    Message Signalled Interrupts
  Caps offset                   0xA0
PCI capability
  Caps class                    Subsystem Vendor
  Caps offset                   0xB0
  SubVendor ID                  0x1043 (ASUSTeK)
  SubSystem ID                  0x8388
PCI capability
  Caps class                    HyperTransport

```

```

Caps offset          0xB8
Interface type       MSI Mapping
PCI extended capability
Caps class           Vendor Specific
Caps offset          0x100
Vendor               1
Size                 16

```

```

PCI extended capability
Caps class           Virtual Channel
Caps offset          0x110

```

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	22	10	07	96	06	05	10	00	00	00	04	06	10	00	01	00
10	00	00	00	00	00	00	00	00	00	02	02	00	F1	01	00	00
20	B0	FE	B0	FE	F1	FF	01	00	00	00	00	00	00	00	00	00
30	00	00	00	00	50	00	00	00	00	00	00	00	0B	01	07	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	01	58	03	C8	00	00	00	00	10	A0	42	01	20	80	00	00
60	10	08	00	00	12	0C	30	04	40	00	12	70	80	0C	3C	00
70	00	00	48	01	00	00	01	00	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	42	00	01	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	05	B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	0D	B8	00	00	43	10	88	83	08	00	03	A8	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	FF	FF	FF	FF	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
100	0B	00	01	11	01	00	01	01	00	00	00	00	00	00	00	00
110	02	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00
120	01	00	00	00	FF	00	00	80	00	00	00	00	01	00	00	00
130	00	00	00	00	00	00	02	00	00	00	00	00	00	00	00	00
140	03	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00
150	01	00	01	00	00	00	00	00	00	00	00	00	30	20	06	00
160	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00
170	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
180	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
190	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

```

Description          PCI to PCI Bridge
Location              bus 0 (0x00), device 10 (0x0A), function 0
(0x00)
Common header
Vendor ID             0x1022 (AMD)
Model ID              0x9609
Revision ID           0x00

```

PI	0x00
SubClass	0x04
BaseClass	0x06
Cache Line	0x10
Latency	0x00
Header	0x01
PCI header	
Primary bus	0x00
Secondary bus	0x03
Int. Line	0x0A
Int. Pin	0x01
PCI capability	
Caps class	Power Management
Caps offset	0x50
Caps version	1.2
PCI capability	
Caps class	PCI Express
Caps offset	0x58
Device type	Root Port of PCI-E Root Complex
Port	1
Caps version	2.0
Physical slot	#1
Presence detect	yes
Link width	1x (max 1x)
Link speed	2.5 GT/s (max 5.0 GT/s)
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0xA0
PCI capability	
Caps class	Subsystem Vendor
Caps offset	0xB0
SubVendor ID	0x1043 (ASUSTeK)
SubSystem ID	0x8388
PCI capability	
Caps class	HyperTransport
Caps offset	0xB8
Interface type	MSI Mapping
PCI extended capability	
Caps class	Vendor Specific
Caps offset	0x100
Vendor	1
Size	16
PCI extended capability	
Caps class	Virtual Channel
Caps offset	0x110
PCI registers	
00	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	22 10 09 96 07 05 10 00 00 00 04 06 10 00 01 00
10	00 00 00 00 00 00 00 00 00 00 03 03 00 E1 E1 00 00
20	F0 FF 00 00 F1 FD F1 FD 00 00 00 00 00 00 00 00 00
30	00 00 00 00 50 00 00 00 00 00 00 00 00 0A 01 07 00
40	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

50    01 58 03 C8 00 00 00 00 10 A0 42 01 20 80 00 00
60    10 08 00 00 12 0C 30 01 40 00 11 70 80 0C 54 00
70    00 00 48 01 00 00 01 00 00 00 00 00 00 00 00 00
80    00 00 00 00 00 00 00 00 42 00 01 00 00 00 00 00
90    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0    05 B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0    0D B8 00 00 43 10 88 83 08 00 03 A8 00 00 00 00
C0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0    00 00 00 00 FF FF FF FF 00 00 00 00 00 00 00 00
F0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100   0B 00 01 11 01 00 01 01 00 00 00 00 00 00 00 00
110   02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
120   01 00 00 00 FF 00 00 80 00 00 00 00 01 00 00 00
130   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140   03 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
150   01 00 01 00 00 00 00 00 00 00 00 00 00 30 20 06 00
160   00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00
170   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1A0   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description                IDE Controller
Location                    bus 0 (0x00), device 17 (0x11), function 0
(0x00)
Common header
  Vendor ID                 0x1002 (AMD)
  Model ID                  0x4390
  Revision ID               0x00
  PI                        0x8F
  SubClass                  0x01
  BaseClass                 0x01
  Cache Line                0x10
  Latency                   0x40
  Header                    0x00
PCI header
  Address 0 (port) 0x0000C000
  Address 1 (port) 0x0000B000
  Address 2 (port) 0x0000A000
  Address 3 (port) 0x00009000
  Address 4 (port) 0x00008000
  Address 5 (memory) 0xFE9FFC00
  Subvendor ID             0x1043 (ASUSTeK)
  Subsystem ID             0x8389
  Int. Line                 0x16
  Int. Pin                  0x01

```

```

PCI capability
  Caps class      Power Management
  Caps offset     0x60
  Caps version    1.1
PCI capability
  Caps class      Serial ATA Configuration
  Caps offset     0x70
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 02 10 90 43 07 01 30 02 00 8F 01 01 10 40 00 00
10 01 C0 00 00 01 B0 00 00 01 A0 00 00 01 90 00 00
20 01 80 00 00 00 FC 9F FE 00 00 00 00 43 10 89 83
30 00 00 00 00 60 00 00 00 00 00 00 00 16 01 00 00
40 10 00 00 00 01 00 10 00 C0 BF 00 00 00 00 00 00
50 05 70 84 00 00 00 00 00 00 00 00 00 00 00 00
60 01 70 22 00 00 00 00 00 00 00 00 00 00 00 00
70 12 00 10 00 0F 00 00 00 00 00 00 00 00 00 00
80 00 00 00 00 06 00 00 2C F6 A0 B4 01 F5 A0 B4 01
90 F4 A0 B4 01 F6 A0 B4 01 F6 A0 B4 01 F7 A0 B4 01
A0 D8 A0 F8 A0 F7 A0 F7 A0 B8 A0 F7 A0 00 00 00 00
B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0 00 00 00 00 00 00 00 00 00 00 00 00 00 20 00 00
E0 80 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description      USB Controller (OHCI)
Location         bus 0 (0x00), device 18 (0x12), function 0
(0x00)

```

```

Common header
  Vendor ID      0x1002 (AMD)
  Model ID       0x4397
  Revision ID    0x00
  PI             0x10
  SubClass       0x03
  BaseClass      0x0C
  Cache Line     0x10
  Latency        0x40
  Header         0x80

```

```

PCI header
  Address 0 (memory)  0xFE9FE000
  Subvendor ID       0x1043 (ASUSTeK)
  Subsystem ID       0x8389
  Int. Line          0x10
  Int. Pin           0x01

```

```

PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 02 10 97 43 06 01 A0 02 00 10 03 0C 10 40 80 00
10 00 E0 9F FE 00 00 00 00 00 00 00 00 00 00 00 00
20 00 00 00 00 00 00 00 00 00 00 00 00 43 10 89 83
30 00 00 00 00 00 00 00 00 00 00 00 00 10 01 00 00
40 80 03 00 00 11 00 00 00 00 00 00 00 00 00 00

```

50	40	13	03	F6	00	00	00	00	FF	FF	FF	FF	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	FF	00	00	80	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description USB Controller (OHCI)
Location bus 0 (0x00), device 18 (0x12), function 1 (0x01)

Common header

Vendor ID	0x1002 (AMD)
Model ID	0x4398
Revision ID	0x00
PI	0x10
SubClass	0x03
BaseClass	0x0C
Cache Line	0x10
Latency	0x40
Header	0x00

PCI header

Address 0 (memory)	0xFE9FD000
Subvendor ID	0x1043 (ASUSTeK)
Subsystem ID	0x8389
Int. Line	0x10
Int. Pin	0x01

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	10	98	43	16	01	A0	02	00	10	03	0C	10	40	00	00
10	00	D0	9F	FE	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	43	10	89	83
30	00	00	00	00	00	00	00	00	00	00	00	00	10	01	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description USB 2.0 Controller (EHCI)
Location bus 0 (0x00), device 18 (0x12), function 2

```

(0x02)
Common header
  Vendor ID      0x1002 (AMD)
  Model ID       0x4396
  Revision ID    0x00
  PI             0x20
  SubClass       0x03
  BaseClass      0x0C
  Cache Line     0x10
  Latency        0x40
  Header         0x00
PCI header
  Address 0 (memory)  0xFE9FF800
  Subvendor ID      0x1043 (ASUSTeK)
  Subsystem ID      0x8389
  Int. Line         0x11
  Int. Pin          0x02
PCI capability
  Caps class        Power Management
  Caps offset       0xC0
  Caps version      1.1
PCI capability
  Caps class        Debug Port
  Caps offset       0xE4
PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    02 10 96 43 06 01 B0 02 00 20 03 0C 10 40 00 00
10    00 F8 9F FE 00 00 00 00 00 00 00 00 00 00 00 00
20    00 00 00 00 00 00 00 00 00 00 00 00 00 43 10 89 83
30    00 00 00 00 00 C0 00 00 00 00 00 00 00 00 11 02 00 00
40    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50    D8 01 9E 82 00 00 00 00 00 00 00 00 00 00 00 00 00
60    20 20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
80    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0    01 00 00 00 00 00 20 00 C0 00 00 00 00 00 00 00 00
B0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0    01 E4 02 7E 00 00 40 00 00 00 00 00 00 00 00 00 00
D0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0    00 00 00 00 00 0A 00 E0 20 00 00 00 00 00 00 00 00
F0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description          USB Controller (OHCI)
Location             bus 0 (0x00), device 19 (0x13), function 0
(0x00)
Common header
  Vendor ID      0x1002 (AMD)
  Model ID       0x4397
  Revision ID    0x00
  PI             0x10
  SubClass       0x03

```

```

BaseClass      0x0C
Cache Line     0x10
Latency        0x40
Header         0x80
PCI header
Address 0 (memory)  0xFE9FC000
Subvendor ID      0x1043 (ASUSTeK)
Subsystem ID      0x8389
Int. Line        0x12
Int. Pin         0x01
PCI registers
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 02 10 97 43 06 01 A0 02 00 10 03 0C 10 40 80 00
10 00 C0 9F FE 00 00 00 00 00 00 00 00 00 00 00 00
20 00 00 00 00 00 00 00 00 00 00 00 00 43 10 89 83
30 00 00 00 00 00 00 00 00 00 00 00 00 12 01 00 00
40 80 03 00 00 11 00 00 00 00 00 00 00 00 00 00 00
50 40 13 03 F6 00 00 00 00 FF FF FF FF 00 00 00 00
60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70 00 00 00 00 FF 00 00 80 00 00 00 00 00 00 00 00
80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description      USB Controller (OHCI)
Location         bus 0 (0x00), device 19 (0x13), function 1
(0x01)

```

```

Common header
Vendor ID      0x1002 (AMD)
Model ID       0x4398
Revision ID    0x00
PI             0x10
SubClass       0x03
BaseClass      0x0C
Cache Line     0x10
Latency        0x40
Header         0x00

```

```

PCI header
Address 0 (memory)  0xFE9FB000
Subvendor ID      0x1043 (ASUSTeK)
Subsystem ID      0x8389
Int. Line        0x12
Int. Pin         0x01

```

```

PCI registers
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 02 10 98 43 16 01 A0 02 00 10 03 0C 10 40 00 00
10 00 B0 9F FE 00 00 00 00 00 00 00 00 00 00 00 00

```

20	00	00	00	00	00	00	00	00	00	00	00	00	00	43	10	89	83
30	00	00	00	00	00	00	00	00	00	00	00	00	00	12	01	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description USB 2.0 Controller (EHCI)
Location bus 0 (0x00), device 19 (0x13), function 2 (0x02)

Common header

Vendor ID	0x1002 (AMD)
Model ID	0x4396
Revision ID	0x00
PI	0x20
SubClass	0x03
BaseClass	0x0C
Cache Line	0x10
Latency	0x40
Header	0x00

PCI header

Address 0 (memory)	0xFE9FF400
Subvendor ID	0x1043 (ASUSTeK)
Subsystem ID	0x8389
Int. Line	0x13
Int. Pin	0x02

PCI capability

Caps class	Power Management
Caps offset	0xC0
Caps version	1.1

PCI capability

Caps class	Debug Port
Caps offset	0xE4

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	10	96	43	06	01	B0	02	00	20	03	0C	10	40	00	00
10	00	F4	9F	FE	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	43	10	89	83
30	00	00	00	00	C0	00	00	00	00	00	00	00	13	02	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	D8	01	9E	82	00	00	00	00	00	00	00	00	00	00	00	00
60	20	20	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00


```

Common header
  Vendor ID      0x1002 (AMD)
  Model ID       0x439C
  Revision ID    0x00
  PI             0x8A
  SubClass       0x01
  BaseClass      0x01
  Cache Line     0x00
  Latency        0x00
  Header         0x00
PCI header
  Address 4 (port) 0x0000FF00
  Subvendor ID    0x1043 (ASUSTeK)
  Subsystem ID    0x8389
  Int. Line       0x00
  Int. Pin        0x01
PCI capability
  Caps class      Message Signalled Interrupts
  Caps offset     0x70
PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    02 10 9C 43 05 00 30 02 00 8A 01 01 00 00 00 00
10    01 00 00 00 01 00 00 00 01 00 00 00 01 00 00 00
20    01 FF 00 00 00 00 00 00 00 00 00 00 43 10 89 83
30    00 00 00 00 70 00 00 00 00 00 00 00 00 01 00 00
40    99 99 99 99 FF FF FF FF 00 00 00 00 00 00 00 00
50    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60    00 00 40 26 10 2C 01 07 01 00 00 00 FF FF 0F 00
70    05 00 02 00 00 00 00 00 00 00 00 00 00 00 00 00
80    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description      High Definition Audio (HDA)
Location         bus 0 (0x00), device 20 (0x14), function 2
(0x02)

```

```

Common header
  Vendor ID      0x1002 (AMD)
  Model ID       0x4383
  Revision ID    0x00
  PI             0x00
  SubClass       0x03
  BaseClass      0x04
  Cache Line     0x10
  Latency        0x40
  Header         0x00

```

```

PCI header

```

```

        Address 0 (memory)      0x00000000FE9F4004
        Subvendor ID           0x1043 (ASUSTeK)
        Subsystem ID           0x836C
        Int. Line               0x10
        Int. Pin                0x01
PCI capability
    Caps class                 Power Management
    Caps offset                 0x50
    Caps version                1.1
PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
    00 02 10 83 43 06 00 10 04 00 00 03 04 10 40 00 00
    10 04 40 9F FE 00 00 00 00 00 00 00 00 00 00 00 00
    20 00 00 00 00 00 00 00 00 00 00 00 00 43 10 6C 83
    30 00 00 00 00 50 00 00 00 00 00 00 00 10 01 00 00
    40 00 00 00 00 01 00 00 00 00 00 00 00 01 00 00 00
    50 01 00 42 C8 00 00 00 00 00 00 00 00 00 00 00 00
    60 05 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00
    70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Description                PCI to ISA Bridge
Location                   bus 0 (0x00), device 20 (0x14), function 3
(0x03)
Common header
    Vendor ID               0x1002 (AMD)
    Model ID                 0x439D
    Revision ID              0x00
    PI                       0x00
    SubClass                 0x01
    BaseClass                0x06
    Cache Line               0x00
    Latency                  0x00
    Header                   0x80
PCI header
    Subvendor ID             0x1043 (ASUSTeK)
    Subsystem ID             0x8389
    Int. Line                0x00
    Int. Pin                 0x00
PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
    00 02 10 9D 43 0F 00 20 02 00 00 01 06 00 00 80 00
    10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
    20 00 00 00 00 00 00 00 00 00 00 00 00 43 10 89 83
    30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

40	04	00	00	00	43	C0	03	FF	17	FF	40	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	30	02	00	00	0E	00	0F	00	A0	FF	FF	FF
70	67	45	23	00	00	00	00	00	14	00	00	00	05	0A	00	00
80	08	00	03	A8	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	08	01	00	00	00
A0	02	00	C1	FE	2F	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	E9	F2	FF	00	00
C0	00	00	00	00	00	00	08	00	F7	FF	FF	FD	00	00	00	78
D0	00	FF	FF	00	00	00	00	FF	FF	FF	FF	00	00	00	00	0C
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description PCI to PCI Bridge
Location bus 0 (0x00), device 20 (0x14), function 4 (0x04)

Common header
Vendor ID 0x1002 (AMD)
Model ID 0x4384
Revision ID 0x00
PI 0x01
SubClass 0x04
BaseClass 0x06
Cache Line 0x00
Latency 0x40
Header 0x81

PCI header
Primary bus 0x00
Secondary bus 0x04
Int. Line 0x00
Int. Pin 0x00

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	10	84	43	07	05	A0	02	00	01	04	06	00	40	81	00
10	00	00	00	00	00	00	00	00	00	04	04	40	F0	00	80	22
20	F0	FF	00	00	F0	FF	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	00	00	07	00
40	26	00	08	FF	00	00	00	00	0C	0F	3C	D1	00	01	00	00
50	01	00	00	00	08	00	03	A8	00	00	00	00	85	00	FF	FF
60	CA	0E	17	00	BA	D8	10	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	01	00	02	06
E0	00	00	80	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description USB Controller (OHCI)
Location bus 0 (0x00), device 20 (0x14), function 5

(0x05)

Common header

Vendor ID 0x1002 (AMD)
Model ID 0x4399
Revision ID 0x00
PI 0x10
SubClass 0x03
BaseClass 0x0C
Cache Line 0x10
Latency 0x40
Header 0x00

PCI header

Address 0 (memory) 0xFE9FA000
Subvendor ID 0x1043 (ASUSTeK)
Subsystem ID 0x8389
Int. Line 0x12
Int. Pin 0x03

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	10	99	43	06	01	A0	02	00	10	03	0C	10	40	00	00
10	00	A0	9F	FE	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	43	10	89	83
30	00	00	00	00	00	00	00	00	00	00	00	00	12	03	00	00
40	80	01	00	00	11	00	00	00	00	00	00	00	00	00	00	00
50	40	13	1F	F6	00	00	00	00	FF	FF	FF	FF	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	FF	00	00	80	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description

Host Bridge

Location bus 0 (0x00), device 24 (0x18), function 0 (0x00)

Common header

Vendor ID 0x1022 (AMD)
Model ID 0x1600
Revision ID 0x00
PI 0x00
SubClass 0x00
BaseClass 0x06
Cache Line 0x00
Latency 0x00
Header 0x80

PCI header

Subvendor ID 0x0000
Subsystem ID 0x0000

```

        Int. Line      0x00
        Int. Pin       0x00
PCI capability
    Caps class      HyperTransport
    Caps offset      0x80
    Caps revision    3.00
    Interface type   Host/Secondary
    Device number    0
    Link 0 width (in/out) 16 bits/16 bits
    Link 0 frequency 2200 MHz
PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    22 10 00 16 00 00 10 00 00 00 00 06 00 00 80 00
10    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
20    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
30    00 00 00 00 80 00 00 00 00 00 00 00 00 00 00 00
40    01 02 04 00 01 02 04 00 01 02 04 00 01 02 04 00
50    01 02 04 00 01 02 04 00 01 02 04 00 01 02 04 00
60    00 00 05 00 E0 00 00 00 00 00 B8 4F 02 10 0E 80 00
70    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
80    08 00 01 21 20 A0 11 11 60 0C F5 FF 13 00 00 00
90    EE 02 84 80 00 00 01 00 07 00 00 00 3E 00 00 00
A0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description      Host Bridge
Location         bus 0 (0x00), device 24 (0x18), function 1
(0x01)

```

```

Common header
    Vendor ID      0x1022 (AMD)
    Model ID       0x1601
    Revision ID    0x00
    PI             0x00
    SubClass       0x00
    BaseClass      0x06
    Cache Line     0x00
    Latency        0x00
    Header         0x80

```

```

PCI header
    Subvendor ID   0x0000
    Subsystem ID   0x0000
    Int. Line      0x00
    Int. Pin       0x00

```

```

PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    22 10 01 16 00 00 00 00 00 00 00 06 00 00 80 00
10    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
20    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

30	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
40	03	00	00	00	00	00	36	04	00	00	00	00	01	00	00	00
50	00	00	00	00	02	00	00	00	00	00	00	00	03	00	00	00
60	00	00	00	00	04	00	00	00	00	00	00	00	05	00	00	00
70	00	00	00	00	06	00	00	00	00	00	00	00	07	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	03	0A	00	00	00	0B	00	00	03	00	C8	00	00	FF	DF	00
B0	03	00	E0	00	80	FF	EF	00	03	00	F0	00	00	DF	FF	00
C0	13	10	00	00	00	F0	FF	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	03	00	00	1F	00	00	00	00	00	00	00	00	00	00	00	00
F0	03	38	00	C8	00	00	00	00	00	00	00	00	00	00	00	00

Description Host Bridge
Location bus 0 (0x00), device 24 (0x18), function 2 (0x02)
Common header

Vendor ID	0x1022 (AMD)
Model ID	0x1602
Revision ID	0x00
PI	0x00
SubClass	0x00
BaseClass	0x06
Cache Line	0x00
Latency	0x00
Header	0x80

PCI header

Subvendor ID	0x0000
Subsystem ID	0x0000
Int. Line	0x00
Int. Pin	0x00

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	22	10	02	16	00	00	00	00	00	00	00	06	00	00	80	00
10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
40	01	00	00	00	09	01	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	E0	3E	F8	01	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	02	00	18	01	24	18
80	0A	00	00	00	04	00	80	00	00	00	00	3C	00	00	02	00
90	00	00	01	0B	92	08	58	0F	07	40	0F	8D	00	00	00	00
A0	00	02	1D	03	00	00	00	00	00	00	00	00	00	00	00	00
B0	EE	AB	C3	A4	9A	00	00	00	5E	AB	00	E9	11	4A	97	14
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	ED	5D	60	0C	37	89	90	59	A4	00	75	D1	B9	20	51	49
E0	E5	B6	DC	FD	DF	48	F6	1D	ED	68	D2	2B	26	A0	53	0B
F0	00	00	00	00	00	00	00	00	DB	C9	9E	80	68	55	15	00

Description Host Bridge

Location bus 0 (0x00), device 24 (0x18), function 3 (0x03)

Common header

Vendor ID 0x1022 (AMD)
 Model ID 0x1603
 Revision ID 0x00
 PI 0x00
 SubClass 0x00
 BaseClass 0x06
 Cache Line 0x00
 Latency 0x00
 Header 0x80

PCI header

Subvendor ID 0x0000
 Subsystem ID 0x0000
 Int. Line 0x00
 Int. Pin 0x00

PCI capability

Caps class Secure Device
 Caps offset 0xF0

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	22	10	03	16	00	00	10	00	00	00	00	06	00	00	80	00
10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	F0	00	00	00	00	00	00	00	00	00	00	00
40	FF	FF	FF	FF	44	00	B0	4A	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00
60	00	00	00	00	05	62	3F	66	00	00	00	60	52	00	01	10
70	55	11	17	10	11	21	17	00	12	0E	20	00	16	0F	0D	04
80	81	E2	0B	E2	E2	00	E2	01	08	00	81	00	00	40	40	00
90	40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	0A	06	A0	EF	0F	00	34	00	00	00	D0	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	5A	BF	05	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	0F	81	C8	10	00	00	03	3A	56	47	05
E0	00	00	00	00	20	00	00	00	1E	4F	F0	02	00	00	00	00
F0	0F	00	10	00	00	00	00	00	00	00	00	00	20	0F	60	00

Description

Host Bridge

Location bus 0 (0x00), device 24 (0x18), function 4 (0x04)

Common header

Vendor ID 0x1022 (AMD)
 Model ID 0x1604
 Revision ID 0x00
 PI 0x00
 SubClass 0x00
 BaseClass 0x06
 Cache Line 0x00
 Latency 0x00
 Header 0x80

```

PCI header
  Subvendor ID      0x0000
  Subsystem ID      0x0000
  Int. Line         0x00
  Int. Pin          0x00
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 22 10 04 16 00 00 00 00 00 00 00 06 00 00 80 00
10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50 00 00 00 00 FF FF 00 00 00 00 00 00 00 00 00 00
60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description      Host Bridge
Location          bus 0 (0x00), device 24 (0x18), function 5
(0x05)

```

```

Common header
  Vendor ID      0x1022 (AMD)
  Model ID       0x1605
  Revision ID    0x00
  PI             0x00
  SubClass       0x00
  BaseClass      0x06
  Cache Line     0x00
  Latency        0x00
  Header         0x80

```

```

PCI header
  Subvendor ID      0x0000
  Subsystem ID      0x0000
  Int. Line         0x00
  Int. Pin          0x00
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 22 10 05 16 00 00 00 00 00 00 00 06 00 00 80 00
10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

80    07 00 07 00 05 30 16 00 00 00 00 00 00 00 00
90    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0    5E 1A 00 00 FB 19 00 00 00 00 00 00 A9 08 00 00
C0    D2 F3 1F 00 09 1D 00 00 EA 10 00 00 45 1A 00 00
D0    38 61 00 00 FC 69 00 00 FC 69 00 00 00 00 00 00
E0    19 7A 02 00 00 00 00 00 FC 00 4C 01 71 00 02 00
F0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description                      VGA Controller
Location                        bus 1 (0x01), device 0 (0x00), function 0
(0x00)
Common header
  Vendor ID                     0x1002 (AMD)
  Model ID                      0x67DF
  Revision ID                   0xCF
  PI                            0x00
  SubClass                      0x00
  BaseClass                    0x03
  Cache Line                   0x10
  Latency                      0x00
  Header                       0x80
PCI header
  Address 0 (memory)            0x00000000D000000C
  Address 2 (memory)            0x00000000CFE0000C
  Address 4 (port) 0x0000D000
  Address 5 (memory)            0xFEAC0000
  Subvendor ID                  0x174B (PC Partner)
  Subsystem ID                  0xE353
  Int. Line                     0x00
  Int. Pin                      0x01
PCI capability
  Caps class                    Vendor Dependant
  Caps offset                   0x48
PCI capability
  Caps class                    Power Management
  Caps offset                   0x50
  Caps version                  1.2
PCI capability
  Caps class                    PCI Express
  Caps offset                   0x58
  Device type                   Legacy PCI-E Endpoint Device
  Port                          0
  Caps version                  2.0
  Link width                    16x (max 16x)
  Link speed                    5.0 GT/s (max 8.0 GT/s)
PCI capability
  Caps class                    Message Signalled Interrupts
  Caps offset                   0xA0
PCI extended capability
  Caps class                    Vendor Specific
  Caps offset                   0x100

```

```

Vendor          1
Size           16
PCI extended capability
  Caps class     Advanced Error Reporting
  Caps offset    0x150
PCI extended capability
  Caps class     Resizable BAR
  Caps offset    0x200
  Resizable BARs 1
  BAR 0 size     256 MB
PCI extended capability
  Caps class     Secondary PCI Express
  Caps offset    0x270
PCI extended capability
  Caps class     0xF
  Caps offset    0x2B0
PCI extended capability
  Caps class     0x13
  Caps offset    0x2C0
PCI extended capability
  Caps class     0x1B
  Caps offset    0x2D0
PCI extended capability
  Caps class     0x18
  Caps offset    0x320
PCI extended capability
  Caps class     0xE
  Caps offset    0x328
PCI extended capability
  Caps class     0x1E
  Caps offset    0x370
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 02 10 DF 67 07 05 10 00 CF 00 00 03 10 00 80 00
10 0C 00 00 D0 00 00 00 00 0C 00 E0 CF 00 00 00 00
20 01 D0 00 00 00 00 AC FE 00 00 00 00 4B 17 53 E3
30 00 00 00 00 48 00 00 00 00 00 00 00 00 01 00 00
40 00 00 00 00 00 00 00 00 09 50 08 00 4B 17 53 E3
50 01 58 03 F6 08 00 00 00 10 A0 12 00 A1 8F 2C 01
60 10 29 09 00 03 09 44 00 40 00 02 11 00 00 00 00
70 00 00 00 00 00 00 00 00 00 00 00 00 80 09 70 00
80 00 00 00 00 0E 00 00 00 03 00 01 00 00 00 00 00
90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0 05 00 81 00 0C F0 E3 FE 00 00 00 00 B3 49 00 00
B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100 0B 00 01 15 01 00 01 01 00 00 00 00 00 00 00 00
110 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
150  01 00 02 20 00 00 00 00 00 00 00 00 00 30 20 46 00
160  00 20 00 00 00 00 00 00 A0 00 00 00 00 00 00 00
170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description                               High Definition Audio (HDA)
Location                               bus 1 (0x01), device 0 (0x00), function 1
(0x01)
Common header
  Vendor ID                             0x1002 (AMD)
  Model ID                               0xAAF0
  Revision ID                            0x00
  PI                                     0x00
  SubClass                               0x03
  BaseClass                              0x04
  Cache Line                             0x10
  Latency                                0x00
  Header                                 0x80
PCI header
  Address 0 (memory)                     0x00000000FEA9C004
  Subvendor ID                           0x174B (PC Partner)
  Subsystem ID                           0xAAF0
  Int. Line                               0x13
  Int. Pin                                0x02
PCI capability
  Caps class                             Vendor Dependant
  Caps offset                             0x48
PCI capability
  Caps class                             Power Management
  Caps offset                             0x50
  Caps version                             1.2
PCI capability
  Caps class                             PCI Express
  Caps offset                             0x58
  Device type                             Legacy PCI-E Endpoint Device
  Port                                    0
  Caps version                             2.0
  Link width                             16x (max 16x)
  Link speed                             5.0 GT/s (max 8.0 GT/s)
PCI capability
  Caps class                             Message Signalled Interrupts
  Caps offset                             0xA0
PCI extended capability

```

```

Caps class      Vendor Specific
Caps offset     0x100
Vendor          1
Size            16
PCI extended capability
Caps class      Advanced Error Reporting
Caps offset     0x150
PCI extended capability
Caps class      0xE
Caps offset     0x328
PCI registers
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00 02 10 F0 AA 06 01 10 00 00 00 03 04 10 00 80 00
10 04 C0 A9 FE 00 00 00 00 00 00 00 00 00 00 00 00
20 00 00 00 00 00 00 00 00 00 00 00 00 4B 17 F0 AA
30 00 00 00 00 48 00 00 00 00 00 00 00 13 02 00 00
40 00 00 00 00 00 00 00 00 09 50 08 00 4B 17 F0 AA
50 01 58 03 06 08 00 00 00 10 A0 12 00 A1 8F 2C 01
60 10 29 09 00 03 09 44 00 43 01 02 11 00 00 00 00
70 00 00 00 00 00 00 00 00 00 00 00 00 80 09 70 00
80 00 00 00 00 0E 00 00 00 00 00 01 00 00 00 00 00
90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0 05 00 80 00 00 00 00 00 00 00 00 00 00 00 00 00
B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100 0B 00 01 15 01 00 01 01 00 00 00 00 00 00 00 00
110 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
150 01 00 82 32 00 00 00 00 00 00 00 00 30 20 46 00
160 00 20 00 00 00 20 00 00 A0 00 00 00 00 00 00 00
170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description      USB Controller (xHCI)
Location         bus 2 (0x02), device 0 (0x00), function 0
(0x00)
Common header
Vendor ID        0x1B21 (ASMedia)
Model ID         0x1142
Revision ID      0x00

```

```

    PI                0x30
    SubClass          0x03
    BaseClass         0x0C
    Cache Line        0x10
    Latency            0x00
    Header            0x00
PCI header
    Address 0 (memory) 0x00000000FEBF0004
    Subvendor ID       0x1043 (ASUSTeK)
    Subsystem ID       0x85BF
    Int. Line          0x00
    Int. Pin           0x01
PCI capability
    Caps class         Message Signalled Interrupts
    Caps offset        0x50
PCI capability
    Caps class         MSI-X
    Caps offset        0x68
PCI capability
    Caps class         Power Management
    Caps offset        0x78
    Caps version       1.2
PCI capability
    Caps class         PCI Express
    Caps offset        0x80
    Device type        Legacy PCI-E Endpoint Device
    Port               1
    Caps version       2.0
    Link width         1x (max 1x)
    Link speed         5.0 GT/s (max 5.0 GT/s)
PCI extended capability
    Caps class         Virtual Channel
    Caps offset        0x100
PCI registers
    00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00    21 1B 42 11 06 05 10 00 00 30 03 0C 10 00 00 00
10    04 00 BF FE 00 00 00 00 00 00 00 00 00 00 00 00
20    00 00 00 00 00 00 00 00 00 00 00 00 00 43 10 BF 85
30    00 00 00 00 50 00 00 00 00 00 00 00 00 00 01 00 00
40    00 00 00 00 60 61 11 02 00 00 00 00 00 00 00 00 00
50    05 68 86 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60    30 20 00 00 00 00 00 00 00 11 78 07 80 00 20 00 00
70    80 20 00 00 00 00 00 00 00 01 80 43 80 08 00 00 00
80    10 00 12 00 02 82 64 00 10 28 01 00 12 FC 03 01
90    40 00 12 10 00 00 00 00 00 00 00 00 00 00 00 00 00
A0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0    02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0    00 00 00 00 9D 05 03 19 00 00 00 00 00 00 00 00 00
F0    00 00 00 00 00 00 00 00 00 BF 85 00 00 00 00 00 00 00
100   02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

110  00 00 00 00 FF 00 00 80 00 00 00 00 00 00 00 00
120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

Description                      Ethernet Controller
Location                        bus 3 (0x03), device 0 (0x00), function 0
(0x00)
Common header
  Vendor ID                     0x10EC (Realtek)
  Model ID                      0x8168
  Revision ID                   0x09
  PI                            0x00
  SubClass                     0x00
  BaseClass                    0x02
  Cache Line                   0x10
  Latency                      0x00
  Header                       0x00
PCI header
  Address 0 (port) 0x0000E800
  Address 2 (memory) 0x00000000FDFFF00C
  Address 4 (memory) 0x00000000FDFF800C
  Subvendor ID               0x1043 (ASUSTeK)
  Subsystem ID               0x8505
  Int. Line                  0x00
  Int. Pin                   0x01
PCI capability
  Caps class                  Power Management
  Caps offset                 0x40
  Caps version                1.2
PCI capability
  Caps class                  Message Signalled Interrupts
  Caps offset                 0x50
PCI capability
  Caps class                  PCI Express
  Caps offset                 0x70
  Device type                 PCI-E Endpoint Device
  Port                       0
  Caps version                2.0
  Link width                  1x (max 1x)
  Link speed                  2.5 GT/s (max 2.5 GT/s)

```

```

PCI capability
  Caps class      MSI-X
  Caps offset     0xB0
PCI capability
  Caps class      Virtual Product Data
  Caps offset     0xD0
PCI extended capability
  Caps class      Advanced Error Reporting
  Caps offset     0x100
PCI extended capability
  Caps class      Virtual Channel
  Caps offset     0x140
PCI extended capability
  Caps class      Device Serial Number
  Caps offset     0x160
  Serial (EUI-64) 0-0
PCI registers
  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00  EC 10 68 81 07 05 10 00 09 00 00 02 10 00 00 00
10  01 E8 00 00 00 00 00 00 0C F0 FF FD 00 00 00 00
20  0C 80 FF FD 00 00 00 00 00 00 00 00 43 10 05 85
30  00 00 00 00 40 00 00 00 00 00 00 00 00 00 01 00
40  01 50 C3 FF 08 00 00 00 00 00 00 00 00 00 00 00
50  05 70 80 00 00 00 00 00 00 00 00 00 00 00 00 00
60  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70  10 B0 02 02 C0 8C 64 00 10 50 10 00 11 7C 07 00
80  40 00 11 10 00 00 00 00 00 00 00 00 00 00 00 00
90  00 00 00 00 1F 00 00 00 10 00 00 00 00 00 00 00
A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0  11 D0 03 80 04 00 00 00 04 08 00 00 00 00 00 00
C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0  03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100 01 00 01 14 00 00 00 00 00 00 10 00 30 20 06 00
110 81 20 00 00 00 20 00 00 A0 00 00 00 00 00 00 00
120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
140 02 00 01 16 00 00 00 00 00 00 00 00 00 00 00 00
150 00 00 00 00 FF 00 00 80 00 00 00 00 00 00 00 00
160 03 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
1F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

DMI

SMBIOS Version

2.5

DMI BIOS

vendor American Megatrends Inc.
version 1801
date 11/12/2013
ROM size 2048 KB

DMI System Information

manufacturer System manufacturer
product System Product Name
version System Version
serial System Serial Number
UUID {C6FDA6A0-56DE-11BD-AAB0-704D7B8466A4}
SKU To Be Filled By O.E.M.
family To Be Filled By O.E.M.

DMI Baseboard

vendor ASUSTeK Computer INC.
model M5A78L-M/USB3
revision Rev X.0x
serial 161087039801631

DMI System Enclosure

manufacturer Chassis Manufacture
chassis type Desktop
chassis serial Chassis Serial Number

DMI Processor

manufacturer AMD
model AMD FX(tm)-6300 Six-Core Processor
clock speed 3500.0 MHz
FSB speed 200.0 MHz
multiplier 17.5x
max clock speed 3500.0 MHz

DMI data

000 0x04 0x28 0x04 0x00 0x01 0x03 0x3F 0x02 0x20 0x0F
010 0x60 0x00 0xFF 0xFB 0x8B 0x17 0x03 0x8C 0xC8 0x00
020 0xAC 0x0D 0xAC 0x0D 0x41 0x1B 0x05 0x00 0x06 0x00
030 0x07 0x00 0x04 0x05 0x06 0x06

DMI Port Connector

designation PS/2 Keyboard/Mouse (internal)
designation PS/2 Keyboard/Mouse (external)
connector PS/2

DMI Port Connector

designation USB12 (internal)

designation	USB12 (external)
port type	USB
connector	Access Bus (USB)
DMI Port Connector	
designation	USB_3.0_12 (internal)
designation	USB_3.0_12 (external)
port type	USB
connector	Access Bus (USB)
DMI Port Connector	
designation	LAN (internal)
designation	LAN (external)
port type	Network Port
connector	RJ-45
DMI Port Connector	
designation	Audio_Line_In (internal)
designation	Audio_Line_In (external)
port type	Audio Port
connector	Mini Jack (headphones)
DMI Port Connector	
designation	Audio_Line_Out (internal)
designation	Audio_Line_Out (external)
port type	Audio Port
connector	Mini Jack (headphones)
DMI Port Connector	
designation	Audio_Mic_In (internal)
designation	Audio_Mic_In (external)
port type	Audio Port
connector	Mini Jack (headphones)
DMI Port Connector	
designation	Audio_Center/Sub (internal)
designation	Audio_Center/Sub (external)
port type	Audio Port
connector	Mini Jack (headphones)
DMI Port Connector	
designation	Audio_Rear (internal)
designation	Audio_Rear (external)
port type	Audio Port
connector	Mini Jack (headphones)
DMI Port Connector	
designation	Audio_Side (internal)
designation	Audio_Side (external)
port type	Audio Port
connector	Mini Jack (headphones)

DMI Port Connector designation designation	HDMI (internal) HDMI port (external)
DMI Port Connector designation designation	SPDIFO (internal) SPDIFO (external)
DMI Port Connector designation designation	SPDIFO (internal) SPDIF_O2 (external)
DMI Port Connector designation designation port type connector	VGA (internal) D_SUB (external) Video Port DB-15 female
DMI Port Connector designation designation	DVI (internal) DVI port (external)
DMI Port Connector designation designation connector	COM1 (internal) COM1 (external) 9 Pin Dual Inline (pin 10 cut)
DMI Port Connector designation designation connector	LPT (internal) LPT (external) 25 Pin Dual Inline (pin 26 cut)
DMI Port Connector designation	SATA3G_1 (internal)
DMI Port Connector designation	SATA3G_2 (internal)
DMI Port Connector designation	SATA3G_3 (internal)
DMI Port Connector designation	SATA3G_4 (internal)
DMI Port Connector designation	SATA3G_5 (internal)
DMI Port Connector designation	SATA3G_6 (internal)
DMI Port Connector designation	CPU FAN (internal)

DMI Port Connector designation	CHA FAN (internal)
DMI Port Connector designation	USB56 (internal)
port type	USB
connector	Access Bus (USB)
DMI Port Connector designation	USB78 (internal)
port type	USB
connector	Access Bus (USB)
DMI Port Connector designation	USB910 (internal)
port type	USB
connector	Access Bus (USB)
DMI Port Connector designation	PANEL (internal)
DMI Port Connector designation	SPDIF OUT (internal)
DMI Port Connector designation	AAFP (internal)
DMI Extension Slot designation	PCIEX1_1
type	PCI Express
width	32 bits
populated	no
DMI Extension Slot designation	PCIEX16X
type	PCI Express
width	32 bits
populated	yes
DMI Extension Slot designation	PCI1
type	PCI
width	32 bits
populated	no
DMI Extension Slot designation	PCI2
type	PCI
width	32 bits
populated	no

DMI OEM Strings

```

string[0]      704D7B8466A4
string[1]      To Be Filled By O.E.M.
string[2]      To Be Filled By O.E.M.
string[3]      To Be Filled By O.E.M.

```

DMI Physical Memory Array

```

location      Motherboard
usage         System Memory
correction    None
max capacity  16 GB
max# of devices  4

```

DMI Memory Device

```

designation    DIMM0
format         DIMM
type           unknown
total width    64 bits
data width     64 bits
size           8 GB
manufacturer   Manufacturer0
part number    PartNum0
serial number   SerNum0

```

DMI data

```

000  0x11 0x1B 0x34 0x00 0x32 0x00 0xFE 0xFF 0x40 0x00
010  0x40 0x00 0x00 0x20 0x09 0x00 0x01 0x02 0x01 0x80
020  0x00 0x9B 0x02 0x03 0x04 0x05 0x06 0x44 0x49 0x4D
030  0x4D 0x30 0x00 0x42 0x41 0x4E 0x4B 0x30 0x00 0x4D
040  0x61 0x6E 0x75 0x66 0x61 0x63 0x74 0x75 0x72 0x65
050  0x72 0x30 0x00 0x53 0x65 0x72 0x4E 0x75 0x6D 0x30
060  0x00 0x41 0x73 0x73

```

DMI Memory Device

```

designation    DIMM1
format         DIMM
type           unknown
total width    64 bits
data width     64 bits
size           4 GB
manufacturer   Manufacturer1
part number    PartNum1
serial number   SerNum1

```

DMI data

```

000  0x11 0x1B 0x36 0x00 0x32 0x00 0xFE 0xFF 0x40 0x00
010  0x40 0x00 0x00 0x10 0x09 0x00 0x01 0x02 0x01 0x80
020  0x00 0x9B 0x02 0x03 0x04 0x05 0x06 0x44 0x49 0x4D
030  0x4D 0x31 0x00 0x42 0x41 0x4E 0x4B 0x31 0x00 0x4D
040  0x61 0x6E 0x75 0x66 0x61 0x63 0x74 0x75 0x72 0x65
050  0x72 0x31 0x00 0x53 0x65 0x72 0x4E 0x75 0x6D 0x31
060  0x00 0x41 0x73 0x73

```

DMI Memory Device

```

        designation      DIMM2
        format            DIMM
        type              unknown
        manufacturer      Manufacturer2
        part number        PartNum2
        serial number      SerNum2
DMI data
000  0x11 0x1B 0x38 0x00 0x32 0x00 0xFE 0xFF 0xFF 0xFF
010  0xFF 0xFF 0x00 0x00 0x09 0x00 0x01 0x02 0x02 0x00
020  0x00 0x00 0x00 0x03 0x04 0x05 0x06 0x44 0x49 0x4D
030  0x4D 0x32 0x00 0x42 0x41 0x4E 0x4B 0x32 0x00 0x4D
040  0x61 0x6E 0x75 0x66 0x61 0x63 0x74 0x75 0x72 0x65
050  0x72 0x32 0x00 0x53 0x65 0x72 0x4E 0x75 0x6D 0x32
060  0x00 0x41 0x73 0x73

DMI Memory Device
        designation      DIMM3
        format            DIMM
        type              unknown
        total width        64 bits
        data width        64 bits
        size              4 GB
        manufacturer      Manufacturer3
        part number        PartNum3
        serial number      SerNum3
DMI data
000  0x11 0x1B 0x3A 0x00 0x32 0x00 0xFE 0xFF 0x40 0x00
010  0x40 0x00 0x00 0x10 0x09 0x00 0x01 0x02 0x01 0x80
020  0x00 0x9B 0x02 0x03 0x04 0x05 0x06 0x44 0x49 0x4D
030  0x4D 0x33 0x00 0x42 0x41 0x4E 0x4B 0x33 0x00 0x4D
040  0x61 0x6E 0x75 0x66 0x61 0x63 0x74 0x75 0x72 0x65
050  0x72 0x33 0x00 0x53 0x65 0x72 0x4E 0x75 0x6D 0x33
060  0x00 0x41 0x73 0x73

```

Storage

```

-----
Drive 0/0/-1/-1
        Device Path      \\?\ide#diskwdc_wd10ezex-08wn4a0
                           01.01a01#5&f437ab5&0&0.0.0#{53f56307-
b6bf-11d0-94f2-00a0c91efb8b}
        Name              WDC WD10EZEX-08WN4A0
        Revision          01.01A01
        Serial            WD-WCC6Y7ZZ5XDF
        Capacity          931.5 GB
        Type              Fixed
        Bus Type          ATA (3)
        Rotation speed    7200 RPM
        Features          SMART
        Volume            c:\, 862.7 GBytes (73.3 percent)

```

available)
Volume 1:\, 48.8 GBytes (100.0 percent
available)

USB Devices

USB Device USB Input Device, class=0x00, subclass=
0x00, vendor=0x1C4F, product=0x0034
USB Device Xbox 360 Controller for Windows, class=
0xFF, subclass=0xFF, vendor=0x045E, product=0x028E
USB Device USB Serial Converter, class=0x00, subclass=
0x00, vendor=0x0403, product=0x6001
USB Device Realtek 8812BU Wireless LAN 802.11ac USB
NIC, class=0x00, subclass=0x00, vendor=0x0BDA, product=0xB812
USB Device USB Composite Device, class=0x00, subclass=
0x00, vendor=0xC0F4, product=0x05E0

Graphics

Number of adapters 1

Graphic APIs

API D3D
API ATI I/O
API ADL SDK

Display Adapters

Display adapter 0 (primary)
ID 0x2140001
Name Radeon (TM) RX 470 Graphics
Board Manufacturer PC Partner
Codename Polaris
Cores 2048
ROP Units 32
Technology 14 nm
Memory type GDDR5 (Samsung)
Memory size 4 GB
PCI device bus 1 (0x1), device 0 (0x0), function 0
(0x0)
Vendor ID 0x1002 (0x174B)
Model ID 0x67DF (0xE353)

```

        Revision ID      0xCF
    Root device          bus 0 (0x0), device 2 (0x2), function
0 (0x0)
        Performance Level    Current
            Core clock 600.2 MHz
            Memory clock     300.0 MHz
        Driver version      31.0.12027.9001
        WDDM Model         2.7

Win32_VideoController    AdapterRAM = 0xFFF00000 (4293918720)
Win32_VideoController    DriverVersion = 31.0.12027.9001
Win32_VideoController    DriverDate = 03/30/2023

```

```

Monitor 0
    Model          HP V24i ()
    ID             HPN36AE
    Serial         1CR0360JD0
    Manufacturing Date    Week 36, Year 2020
    Size           24.0 inches
    Max Resolution      1920 x 1080 @ 60 Hz
    Horizontal Freq. Range    30-80 kHz
    Vertical Freq. Range     50-60 Hz
    Max Pixel Clock       170 MHz
    Gamma Factor         2.2

```

Software

```

-----
-----

```

```

Windows Version          Microsoft Windows 10 (10.0)
Professional 64-bit      (Build 19045)
DirectX Version          12.0

```

Register Spaces

```

-----
-----

```

```

Register space          PCI
Register space          PCI #2
Register space          PCI Express, base address =
0x0E0000000
Register space          class = 0x12
Register space          SMBus, base address = 0x0B00
Register space          LPC, base address = 0x0290
Register space          LPC, base address = 0x02E
Register space          LPC, base address = 0x0CD0

```