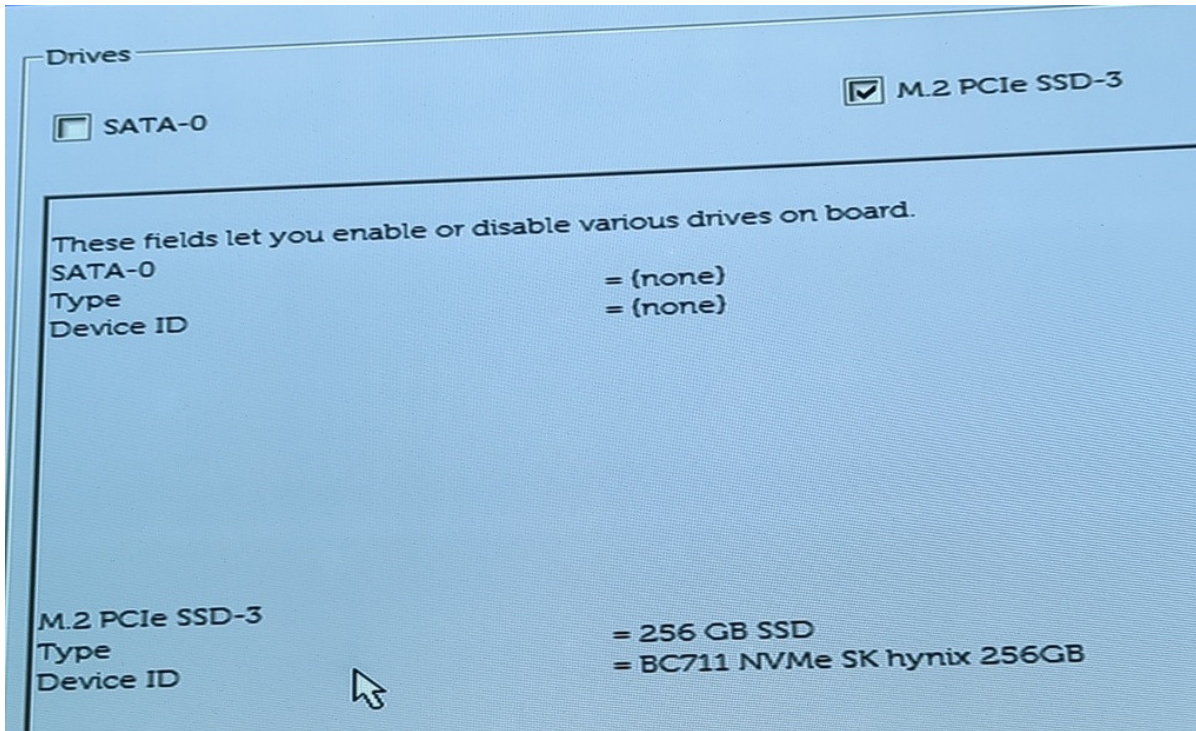


Hardware Specs

- [Ann](#)
- [Igor](#)

Ann

BIOS



System Information

than "Memory Installed". Note that certain operating systems may not be able to use all available memory.

Slot1_M.2
Slot2_M.2

= Mass Storage
= Network

PCI Information

Processor Type
Core Count
Processor ID
Current Clock Speed
Minimum Clock Speed
Maximum Clock Speed
Processor L2 Cache
Processor L3 Cache
HT Capable
64-Bit Technology

= Intel(R) Core(TM) i3-10105T CPU @ 3.00GHz
= 4
= A0653
= 2.871 GHz
= 0.800 GHz
= 3.000 GHz
= 1024 KB
= 6144 KB
Yes
Yes (Intel EM64T)

Processor Information

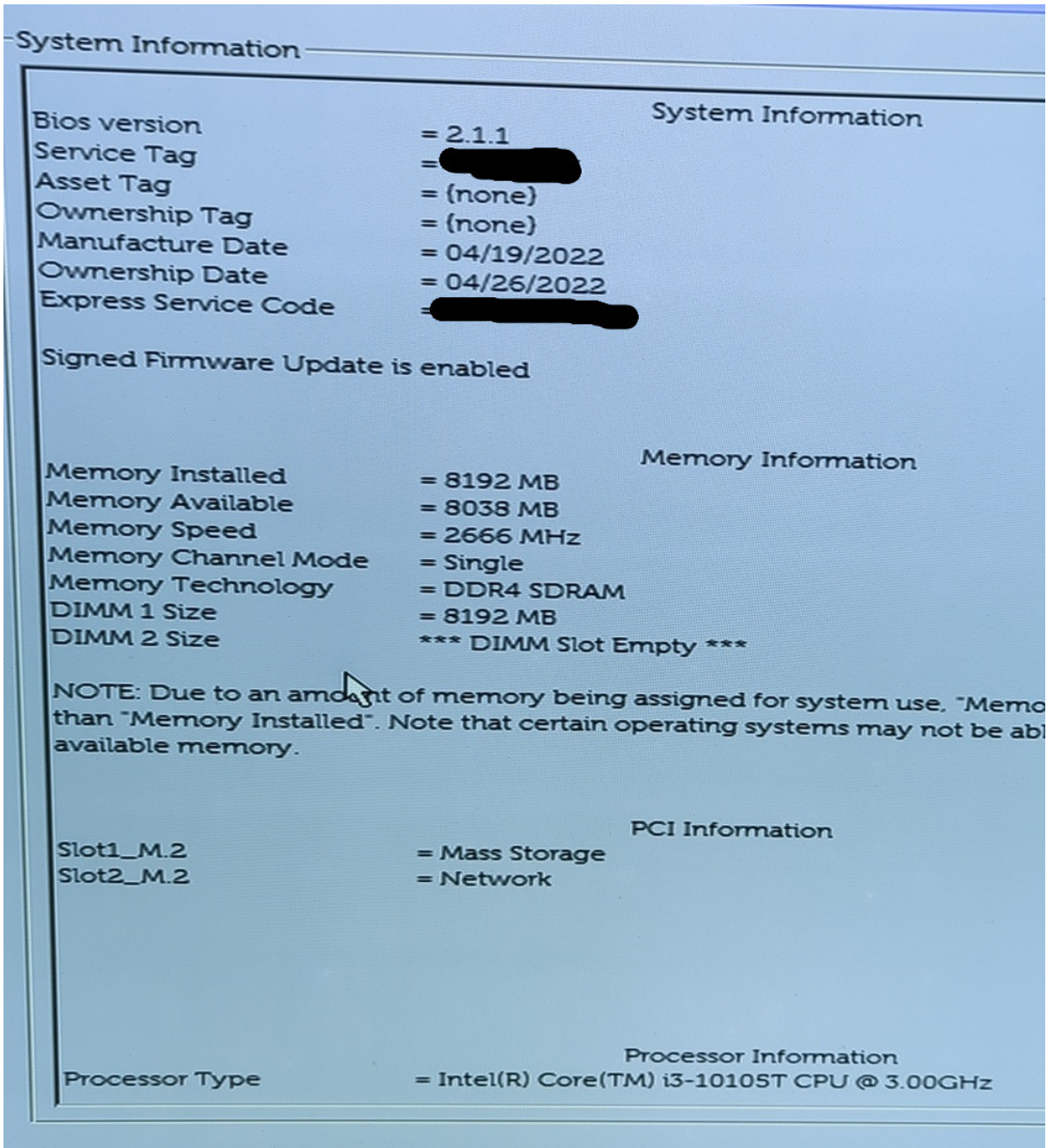
SATA-0
M.2 PCIe SSD-3
LOM MAC Address

= (none)
= 256 GB FSB2N646411702L03
= [REDACTED]

Device Information

Video Controller
Audio Controller
Wi-Fi Device
Bluetooth Device

Intel HD Graphics
= RealTek ALC3246
= Intel Wireless
= Installed



Hardware

RAM

- 1x 8GB 1Rx16 PC4-3200AA SOSIMM SK hynix
- DDR4-3200 (1600MHz) PC4-25600
- SODIMM DDR4 Synchronous 3200 MHz (0.3 ns)
- HMAA1GS6CJR6N-XN



SSD



WiFi/BT



OS reported

```
product: OptiPlex 3090 (0B8A)
vendor: Dell Inc.
serial: XXXX
width: 64 bits
capabilities: smbios-3.2.0 dmi-3.2.0 smp vsyscall32
configuration: boot=normal chassis=desktop family=OptiPlex sku=0B8A uuid=XXX
*-core
  description: Motherboard
  product: 02459H
  vendor: Dell Inc.
  physical id: 0
  version: A00
  serial: XXXX
*-firmware
  description: BIOS
  vendor: Dell Inc.
  physical id: 0
```

version: 2.1.1
date: 12/13/2021
size: 64KiB
capacity: 32MiB

capabilities: pci pnp upgrade shadowing cdboot bootselect edd int13floppy1200
int13floppy720 int13floppy2880 int5printscreen int9keyboard int14serial int17printer acpi usb
biosbootSpecification netboot uefi

*-memory

description: System Memory
physical id: 9
slot: System board or motherboard
size: 8GiB

*-bank:0

description: SODIMM DDR4 Synchronous 3200 MHz (0.3 ns)
product: HMAA1GS6CJR6N-XN
vendor: Hynix Semiconductor (Hyundai Electronics)
physical id: 0
serial: XXXX
slot: DIMM1
size: 8GiB
width: 64 bits
clock: 3200MHz (0.3ns)

*-bank:1

description: [empty]
physical id: 1
slot: DIMM2

*-pci

description: Host bridge
product: 10th Gen Core Processor Host Bridge/DRAM Registers
vendor: Intel Corporation
physical id: 100
bus info: pci@0000:00:00.0
version: 03
width: 32 bits
clock: 33MHz
configuration: driver=skl_uncore
resources: irq:0

*-display

description: VGA compatible controller
product: CometLake-S GT2 [UHD Graphics 630]

```
vendor: Intel Corporation
physical id: 2
bus info: pci@0000:00:02.0
version: 03
width: 64 bits
clock: 33MHz
capabilities: pciexpress msi pm vga_controller bus_master cap_list rom
configuration: driver=i915 latency=0
resources: irq:135 memory:d0000000-d0ffffff memory:c0000000-cfffffff
ioport:4000(size=64) memory:c0000-dffff
*-generic:0 UNCLAIMED
description: System peripheral
product: Xeon E3-1200 v5/v6 / E3-1500 v5 / 6th/7th/8th Gen Core Processor
Gaussian Mixture Model
vendor: Intel Corporation
physical id: 8
bus info: pci@0000:00:08.0
version: 00
width: 64 bits
clock: 33MHz
capabilities: msi pm cap_list
configuration: latency=0
resources: memory:d1323000-d1323fff
*-network
description: Wireless interface
product: Comet Lake PCH CNVi WiFi
vendor: Intel Corporation
physical id: 14.3
bus info: pci@0000:00:14.3
logical name: wlan0
version: 00
serial: c4:03:a8:e8:a7:79
width: 64 bits
clock: 33MHz
capabilities: pm msi pciexpress msix bus_master cap_list ethernet physical
wireless
configuration: broadcast=yes driver=iwlwifi driverversion=6.3.13_1
firmware=74.a5e9588b.0 QuZ-a0-hr-b0-74.u latency=0 link=no multicast=yes wireless=IEEE 802.11
resources: irq:19 memory:d1314000-d1317fff
*-pci:0
```

description: PCI bridge
product: Comet Lake PCI Express Root Port #17
vendor: Intel Corporation
physical id: 1b
bus info: pci@0000:00:1b.0
version: f0
width: 32 bits
clock: 33MHz
capabilities: pci pciexpress msi pm normal_decode bus_master cap_list
configuration: driver=pcieport
resources: irq:122 memory:d1200000-d12fffff

*-nvme

description: NVMe device
product: BC711 NVMe SK hynix 256GB
vendor: SK hynix
physical id: 0
bus info: pci@0000:01:00.0
logical name: /dev/nvme0
version: 41002131
serial: XXXX
width: 64 bits
clock: 33MHz
capabilities: nvme pm msi msix pciexpress nvm_express bus_master cap_list
configuration: driver=nvme latency=0 nqn=nqn.2022-02.com.skhynix:nvme:nvm-
subsystem-sn-XXXX state=live
resources: irq:16 memory:d1200000-d1203fff memory:d1205000-d1205fff

memory:d1204000-d1204fff

*-namespace:0

description: NVMe disk
physical id: 0
logical name: hwmon0

*-namespace:1

description: NVMe disk
physical id: 2
logical name: /dev/ng0n1

*-namespace:2

description: NVMe disk
physical id: 1
bus info: nvme@0:1
logical name: /dev/nvme0n1

```
size: 238GiB (256GB)
capabilities: gpt-1.00 partitioned partitioned:gpt
configuration: guid=XXX logicalsectorsize=512 sectorsize=512 wwid=XXX
```

```
*-volume
```

```
description: EFI partition
physical id: 1
bus info: nvme@0:1,1
logical name: /dev/nvme0n1p1
logical name: /mnt/nvme
serial: XXXX
capacity: 238GiB
configuration: mount.fstype=btrfs
```

```
mount.options=rw,relatime,ssd,discard=async,space_cache=v2,subvolid=5,subvol=/ state=mounted
```

```
*-pci:1
```

```
description: PCI bridge
product: Intel Corporation
vendor: Intel Corporation
physical id: 1c
bus info: pci@0000:00:1c.0
version: f0
width: 32 bits
clock: 33MHz
capabilities: pci pciexpress msi pm normal_decode bus_master cap_list
configuration: driver=pcieport
resources: irq:123 ioport:3000(size=4096) memory:d1100000-d11fffff
```

```
*-network
```

```
description: Ethernet interface
product: RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller
vendor: Realtek Semiconductor Co., Ltd.
physical id: 0
bus info: pci@0000:02:00.0
logical name: eth0
version: 1b
serial: XXXX
size: 1Gbit/s
capacity: 1Gbit/s
width: 64 bits
clock: 33MHz
capabilities: pm msi pciexpress msix vpd bus_master cap_list ethernet physical
```

```
tp mii 10bt 10bt-fd 100bt 100bt-fd 1000bt-fd autonegotiation
```

```
configuration: autonegotiation=on broadcast=yes driver=r8169
driverversion=6.3.13_1 duplex=full firmware=rtl8168h-2_0.0.2 02/26/15 ip=192.168.0.176
latency=0 link=yes multicast=yes port=twisted pair speed=1Gbit/s
resources: irq:16 ioport:3000(size=256) memory:d1104000-d1104fff
memory:d1100000-d1103fff
```

```
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         39 bits physical, 48 bits virtual
Byte Order:            Little Endian
CPU(s):                8
On-line CPU(s) list:  0-7
Vendor ID:             GenuineIntel
BIOS Vendor ID:        Intel(R) Corporation
Model name:            Intel(R) Core(TM) i3-10105T CPU @ 3.00GHz
BIOS Model name:       Intel(R) Core(TM) i3-10105T CPU @ 3.00GHz CPU @ 2.8GHz
BIOS CPU family:       206
CPU family:            6
Model:                 165
Thread(s) per core:    2
Core(s) per socket:    4
Socket(s):             1
Stepping:              3
CPU(s) scaling MHz:    91%
CPU max MHz:           3900.0000
CPU min MHz:           800.0000
BogoMIPS:              6000.00
Flags:                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat
pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm
constant_tsc art arch_perfmon pebs bts
                        rep_good nopl xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq
dtes64 monitor ds_cpl vmx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic
movbe popcnt tsc_deadline_timer
                        er aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault
epb invpcid_single ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid
ept_ad fsgsbase tsc_adjust b
                        ml1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt
intel_pt xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp hwp_notify hwp_act_window
hwp_epp md_clear flush_lld arc
                        h_capabilities
```

Virtualization features:

Virtualization: VT-x

Caches (sum of all):

L1d: 128 KiB (4 instances)

L1i: 128 KiB (4 instances)

L2: 1 MiB (4 instances)

L3: 6 MiB (1 instance)

NUMA:

NUMA node(s): 1

NUMA node0 CPU(s): 0-7

Vulnerabilities:

Itlb multihit: KVM: Mitigation: VMX disabled

L1tf: Not affected

Mds: Not affected

Meltdown: Not affected

Mmio stale data: Vulnerable: Clear CPU buffers attempted, no microcode; SMT vulnerable

Retbleed: Mitigation; Enhanced IBRS

Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl

Spectre v1: Mitigation; usercopy/swaps barriers and __user pointer sanitization

Spectre v2: Mitigation; Enhanced / Automatic IBRS, IBPB conditional, RSB filling,

PBRSE-eIBRS SW sequence

Srbds: Vulnerable: No microcode

Tsx async abort: Not affected

Igor

Resources

- Manual: [optiplex-7050-desktop-micro-owners-manual-en-us.pdf](#)

Hardware

- Model: Dell OptiPlex 7050 micro
- CPU: Intel Core i7-6700T (QC/8MB/8T/2.8GHz/35W)
- RAM: 16GB
- Disk: 2 TB SSD

CPU

- Installed: Intel Core i7-6700T (QC/8MB/8T/2.8GHz/35W)
- Available:
 - Intel Core i3-6100 (DC/3MB/4T/3.7GHz/65W)
 - Intel Core i3-6100T (DC/3MB/4T/3.2GHz/35W)
 - Intel Core i5-6400T (QC/ 6MB/4T/2.2GHz/35W)
 - Intel Core i5-6500 (QC/6MB/4T/3.2GHz/65W)
 - Intel Core i5-6500T (QC/6MB/4T/2.5GHz/35W)
 - Intel Core i5-6600 (QC/6MB/4T/3.3GHz/65W)
 - Intel Core i5-6600T (QC/6MB/4T/2.7GHz/35W)
 - Intel Core i7-6700 (QC/8MB/8T/3.4GHz/65W)
 - Intel Core i7-6700T (QC/8MB/8T/2.8GHz/35W)
 - Intel Core i3-7100 (DC/3MB/4T/3.9GHz/65W)
 - Intel Core i3-7100T (DC/3MB/4T/3.5GHz/35W)
 - Intel Core i3-7300T (DC/4MB/4T/3.5GHz/35W)
 - Intel Core i5-7400T (QC/ 6MB/4T/2.4GHz/35W)
 - Intel Core i5-7500 (QC/6MB/4T/3.4GHz/65W)
 - Intel Core i5-7500T (QC/6MB/4T/2.7GHz/35W)
 - Intel Core i5-7600 (QC/6MB/4T/3.5GHz/65W)
 - Intel Core i5-7600T (QC/6MB/4T/2.8GHz/35W)
 - Intel Core i7-7700 (QC/8MB/8T/3.6GHz/65W)
 - Intel Core i7-7700T (QC/8MB/8T/2.9GHz/35W) - 12% faster than installed

RAM

- Installed: 16GB - 2x 8GB
- Max: 32GB
- Type: SODIMM DDR4 2400 MT/s (running 2133 MT/s)

```
root@igor2:~# dmidecode --type memory
# dmidecode 3.4
Getting SMBIOS data from sysfs.
SMBIOS 3.0.0 present.

Handle 0x0009, DMI type 16, 23 bytes
Physical Memory Array
  Location: System Board Or Motherboard
  Use: System Memory
  Error Correction Type: None
  Maximum Capacity: 32 GB
  Error Information Handle: Not Provided
  Number Of Devices: 2

Handle 0x000A, DMI type 17, 40 bytes
Memory Device
  Array Handle: 0x0009
  Error Information Handle: Not Provided
  Total Width: 64 bits
  Data Width: 64 bits
  Size: 8 GB
  Form Factor: SODIMM
  Set: None
  Locator: DIMM1
  Bank Locator: Not Specified
  Type: DDR4
  Type Detail: Synchronous Unbuffered (Unregistered)
  Speed: 2400 MT/s
  Manufacturer: 802C0000802C
  Serial Number: xxxx
  Asset Tag: xxxxx
  Part Number: 8ATF1G64HZ-2G3B1
  Rank: 1
  Configured Memory Speed: 2133 MT/s
  Minimum Voltage: Unknown
  Maximum Voltage: Unknown
```

☐ Configured Voltage: 1.2 V

Handle 0x000B, DMI type 17, 40 bytes

Memory Device

☐ Array Handle: 0x0009

☐ Error Information Handle: Not Provided

☐ Total Width: 64 bits

☐ Data Width: 64 bits

☐ Size: 8 GB

☐ Form Factor: SODIMM

☐ Set: None

☐ Locator: DIMM2

☐ Bank Locator: Not Specified

☐ Type: DDR4

☐ Type Detail: Synchronous Unbuffered (Unregistered)

☐ Speed: 2400 MT/s

☐ Manufacturer: 802C0000802C

☐ Serial Number: xxxxx

☐ Asset Tag: xxxx

☐ Part Number: 8ATF1G64HZ-2G3B1

☐ Rank: 1

☐ Configured Memory Speed: 2133 MT/s

☐ Minimum Voltage: Unknown

☐ Maximum Voltage: Unknown

☐ Configured Voltage: 1.2 V