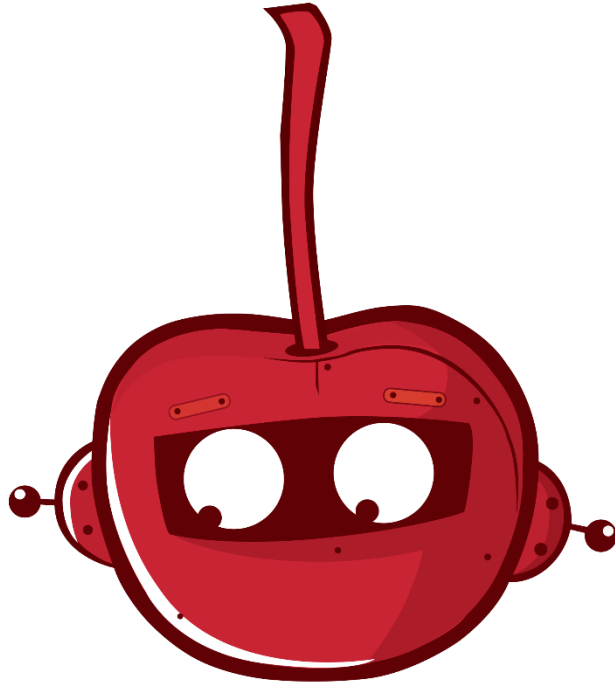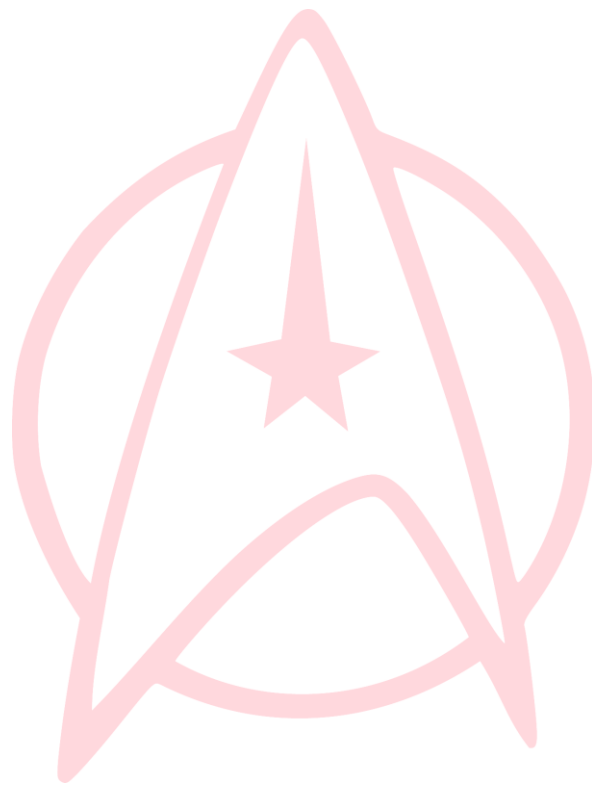# Borg Micro Cube

User Manual

CherryTree

Welcome to your new CherryTree *Star Trek*™ Borg Cube.

We really hope you enjoy your new machine. A lot of work and love went into creating this computer. Being huge *Star Trek*™ fans ourselves, the Borg seemed the perfect fit for a computer. During the design process we learned why nobody has even attempted such a task before. Creating all the details of the Borg on such a mass scale can be quite a challenge. It was worth it. We love our little Borg Micro Cube and hope you will too.
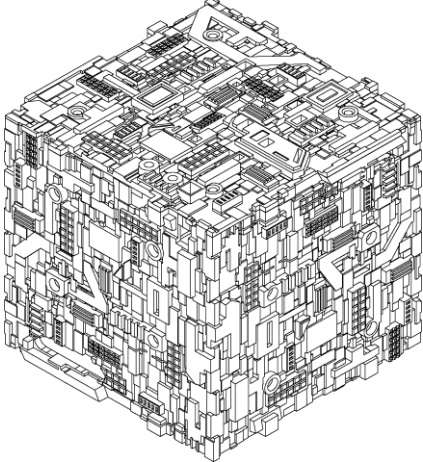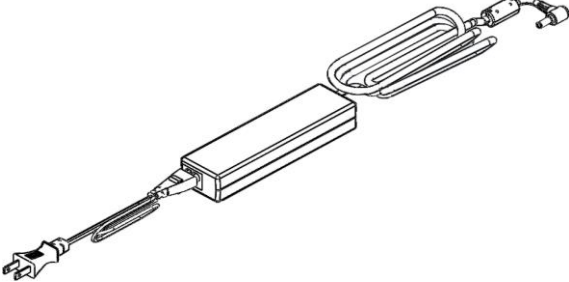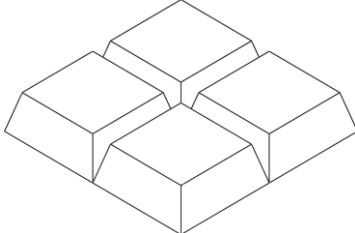
Table of Contents
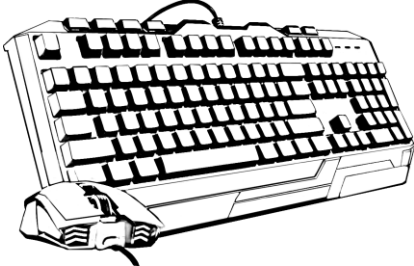
Package Contents

Item #	Item	Picture
1.	Borg Micro Cube PC	
2.	Borg Micro Cube PC Power Supply and Power Cable	
3.	Rubber Feet	
4.	Keyboard & Mouse (Optional)	

Items You May Need

Like many other computers, you may need other accessories to use or take full advantage of your system. Make sure you have the following:

1. Monitor or TV (with HDMI or Display Port Input)
2. Keyboard and mouse
3. HDMI Cable or Display Cable to connect to a Monitor/TV.
4. Power Outlet (Sorry! No matter/anti-matter drives here)
5. Network Ethernet cable or Wi-Fi for Internet

Quick Setup

1. **Take out your new Borg PC:** Remove the Borg cube from the box and remove the plastic.
2. **Attach the rubber feet** (Item #3) **to the bottom corners of the case:**
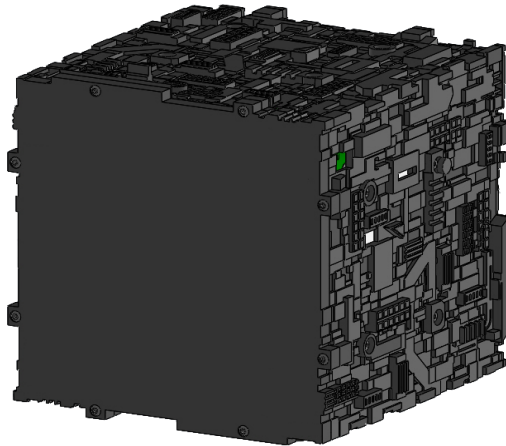
(Fig 1.) Bottom of case

- Remove the rubber feet from the package.
- Separate the feet into 4 separate pieces.
- Remove the film cover off the rubber feet.
- Attach the sticky side of the rubber feet to the bottom (the only smooth surface) corners of your case.
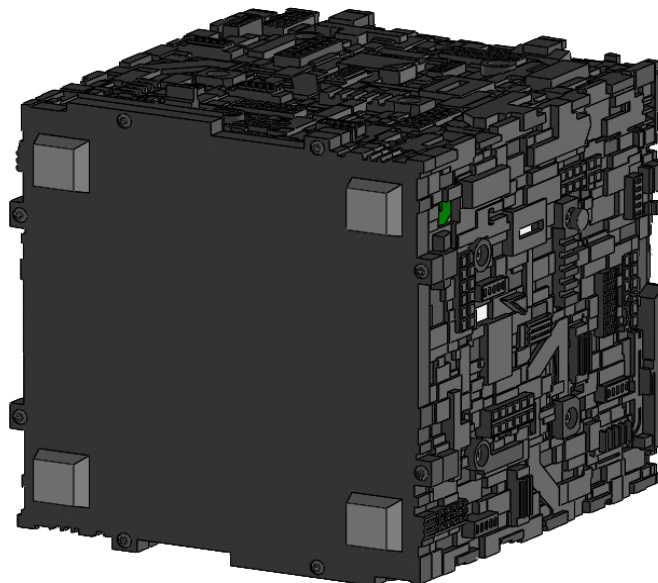
(Fig 2.) Bottom of case with feet attached

3. Place the computer with the feet facing down.
4. Connect the power supply to the case. (*see Fig.3*)

D.C. Power

DC
HDMI
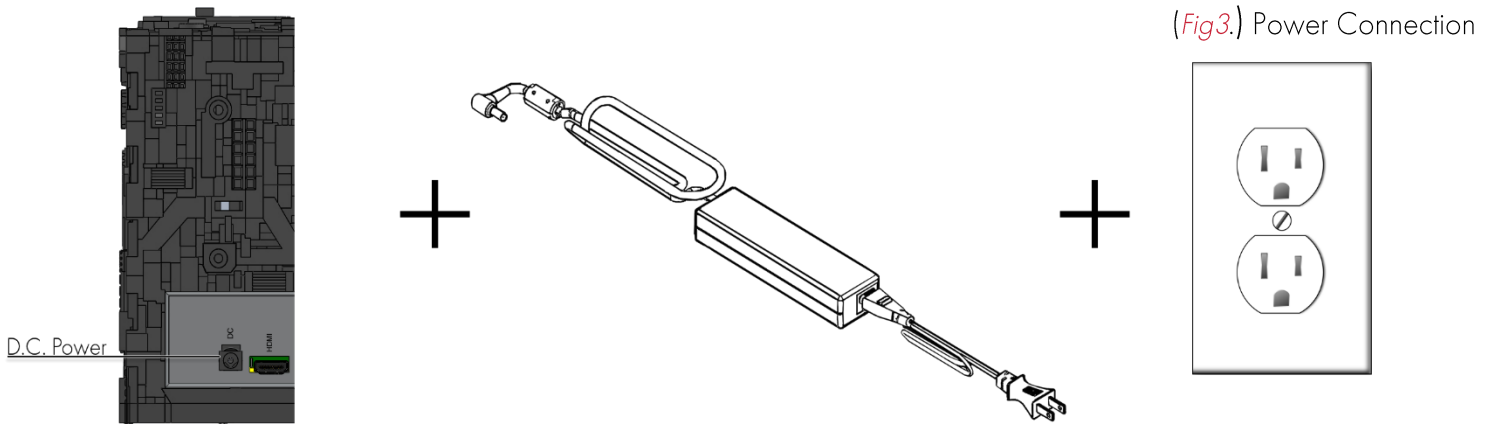
- Remove the power supply from the box, and attach the included power cable to the power supply.
- Plug the power supply to the outlet (*see Fig.3*)
- Plug the power supply into the D.C. Power Port (*see Fig.3*)

5. **Connect Accessories:** Attach monitor, keyboard, mouse, etc. (*see Fig.4*)

(*Fig.4*) Rear of the Borg Cube with Ports shown*

D.C. Power

DC
HDMI
HDMI
DisplayPort
Network
USB USB

Network

USB Ports

HDMI Display

HDMI Display
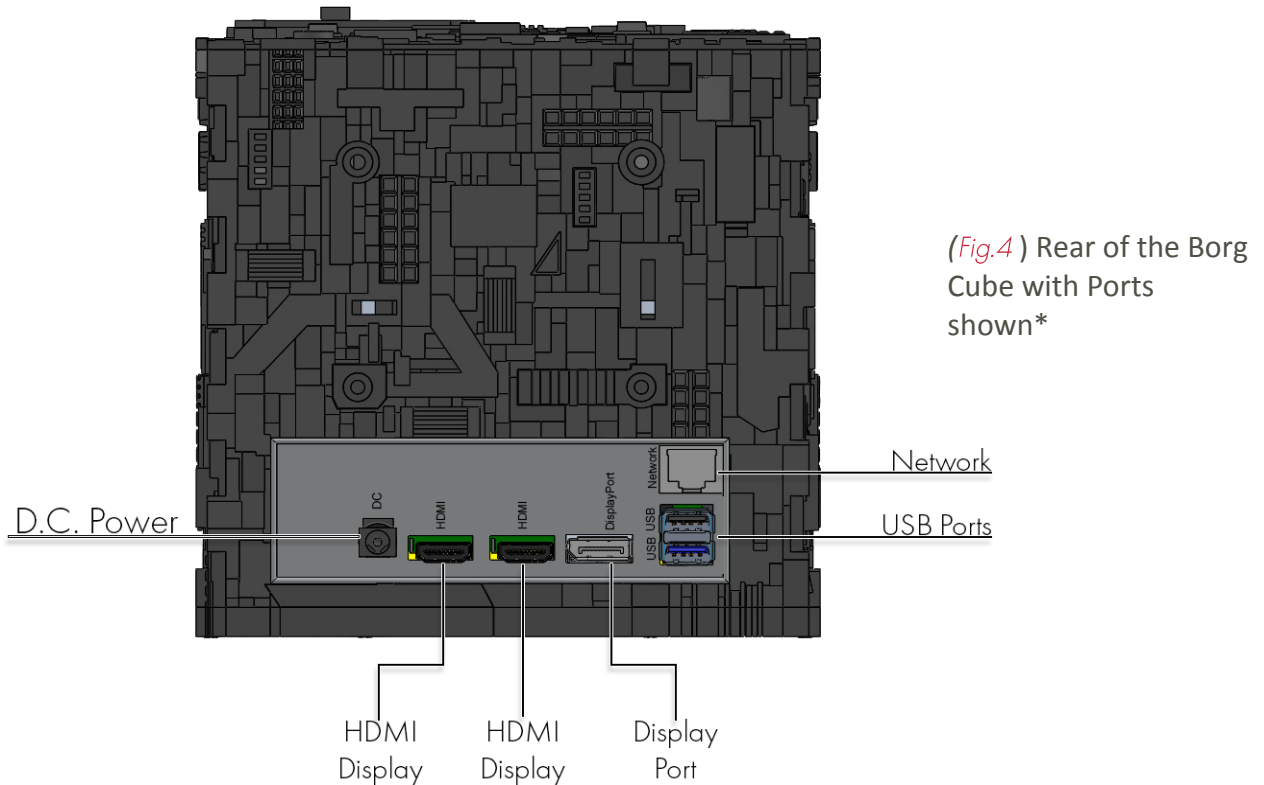
Display Port

- Monitors connect to the HDMI or Display ports (separate cables required)
- Keyboard and mouse connect to any of the USB ports
- Ethernet cables connect to the Network port
  - The system comes with an M.2 Wi-Fi module and can operate either wired or wireless. Make sure you're close enough to a Wi-Fi spot to provide a good connection.

6. Press the power Button (*see Fig.5*). Lights should turn on indicating the machine is powered on.
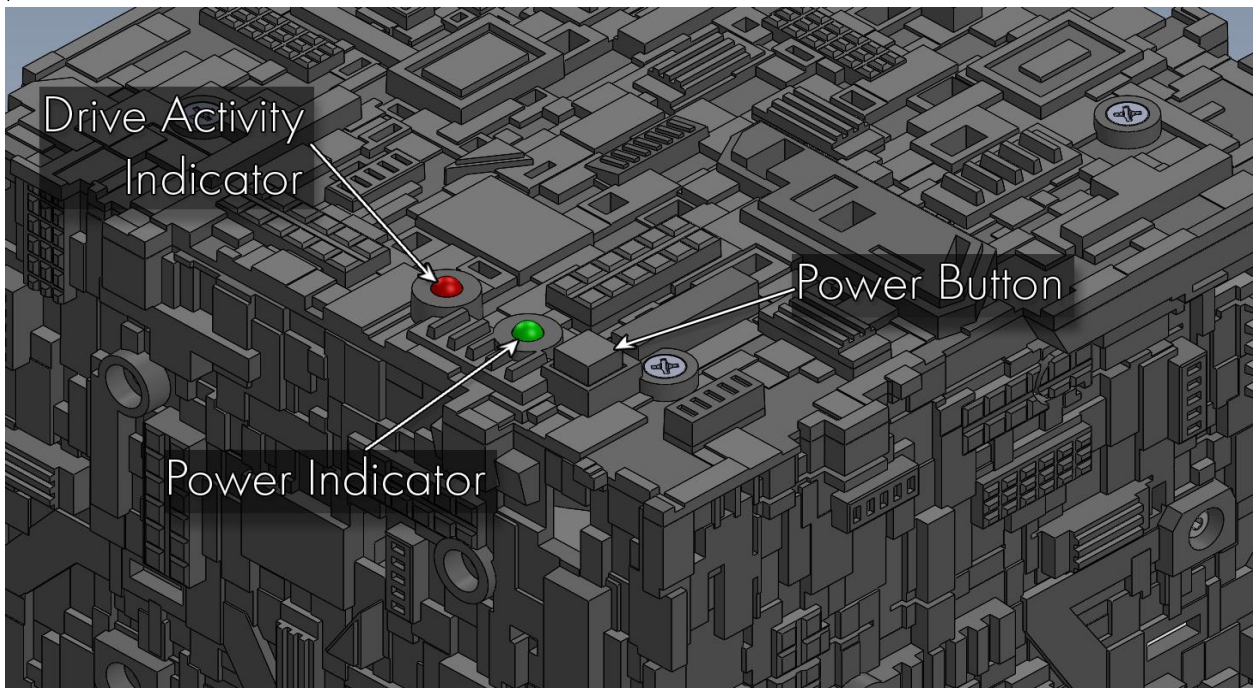
(*Fig.5*) **Power Button & LED lights**

Drive Activity Indicator

Power Button

Power Indicator

7. The computer should boot into windows. *Your password is your order number.*

Rear Connection Ports

(*Fig.6*) Rear of the Borg Cube with Ports shown*

D.C. Power

DC

HDMI

HDMI

DisplayPort

USB USB

Network

Network

USB Ports

HDMI
Display

HDMI
Display

Display
Port
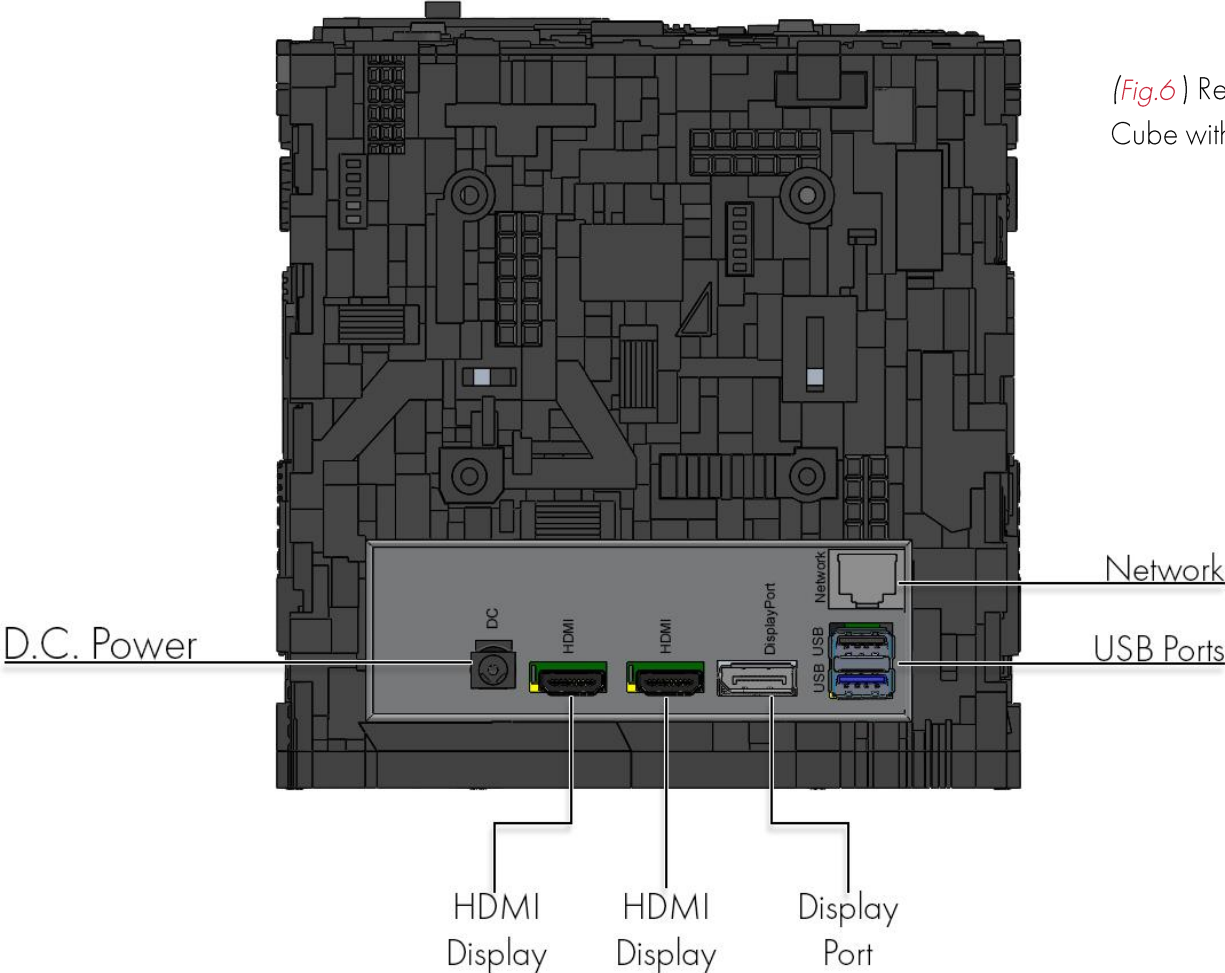
* Due to rapid changes in technology and parts availability the back of your system may differ slightly.

Front Connection Ports

To get to the front connections, remove the Front Panel Cover.
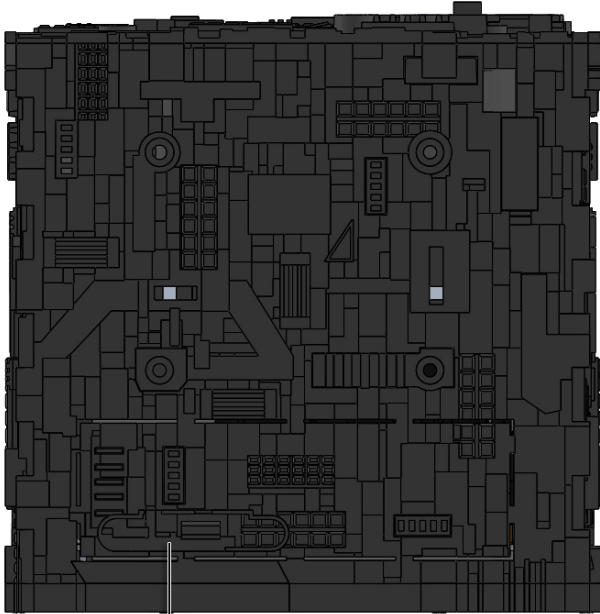
(Fig.7) Front of the Borg Cube with cover on.

Front Panel Cover
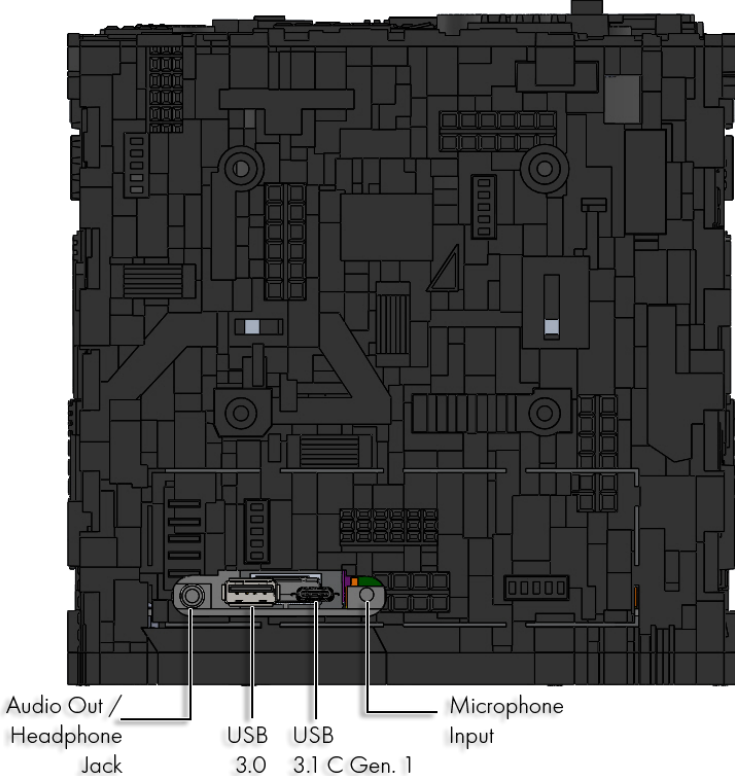
(Fig.8) Front of the Borg Cube with cover off.

Audio Out /
Headphone
Jack

USB
3.0

USB
3.1 C Gen. 1

Microphone
Input

Technical Details
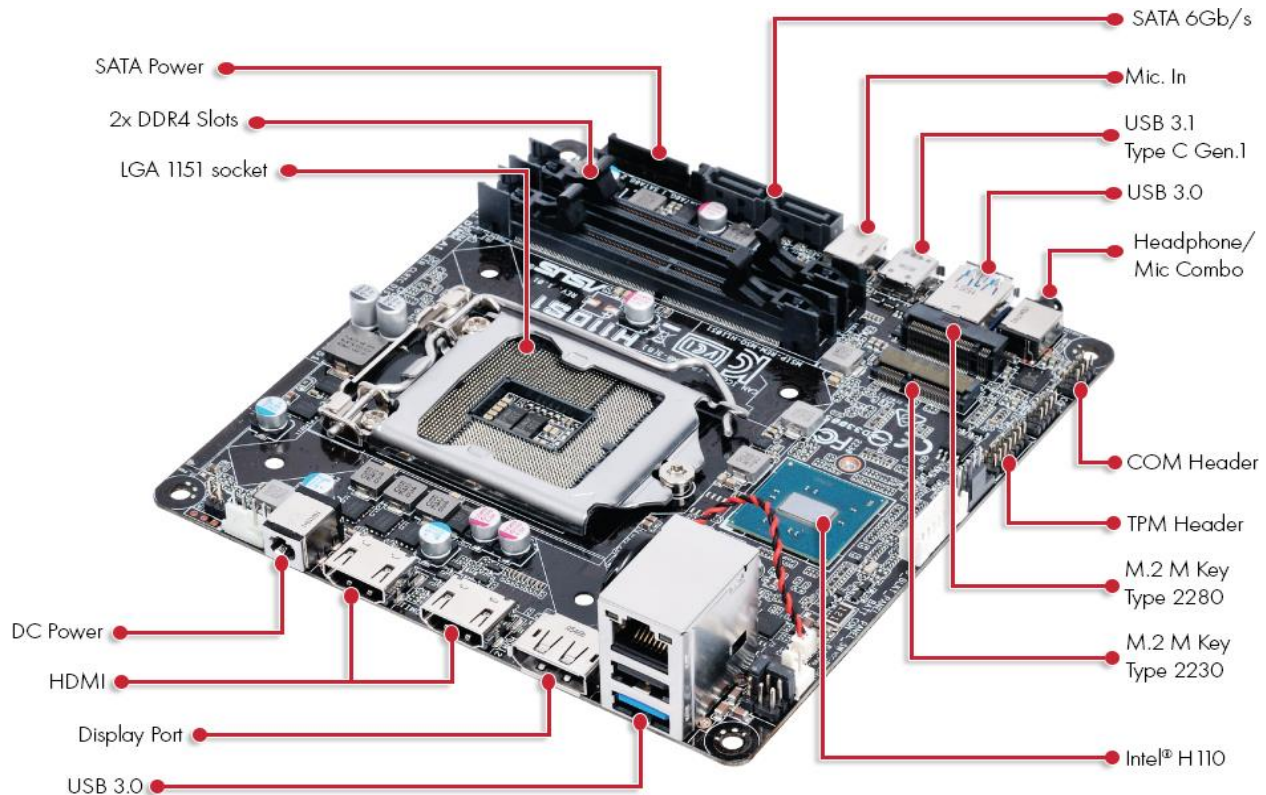
Model: H110S1/CSM
CPU Socket Type: LGA 1151
CPU Type: Core i7 / i5 / i3 (LGA1151)

Chipset: Intel H110

Onboard Video Chipset:
- Integrated Graphics Processor - Intel HD Graphics support
- Multi-VGA output support: Dual HDMI/LVDS/DisplayPort ports
- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
- Supports LVDS with max. resolution 1920 x 1200 @ 60 Hz
- Supports DisplayPort with max. resolution 4096 x 2304 @ 60 Hz
- Maximum shared memory of 1024MB
- Supports up to 2 displays simultaneously

Expansion Slots:
- 1 x M.2 Socket 1 with E key, type 2230 Wi-Fi devices support

Storage:
- 2 x SATA 6Gb/s
- M.2: 1 x M.2 Socket 3, with M key, type 2280 storage devices support (both SATA & PCIE mode)

Onboard Audio: Realtek ALC3236
Audio Channels: 4 Channels

LAN:
- Onboard LAN: Intel I219-V
- Max LAN Speed: 10/100/1000Mbps

Input
- HDMI: 2 x HDMI
- RJ45:   1 x RJ45
- DisplayPort: 1 x DisplayPort
- USB 3.0:   1 x USB 3.0 (blue)
- USB 1.1/2.0:   1 x USB 2.0
- USB 3.1 Type-C Gen.1:   1 x USB 3.1

Other Connectors:
- 1 x COM port(s) connector(s)
- 1 x SATA power connector(s)
- 1 x CPU Fan connector(s)
- 1 x Chassis Fan connector(s)
- 1 x Clear CMOS jumper(s)
- 1 x Backlight inverter voltage selection header
- 1 x FPD brightness header
- 1 x Panel voltage selection header
- 1 x Panel off header
- 1 x LVDS connector(s)
- 1 x 14-1 pin TPM connector
- 1 x System panel connector
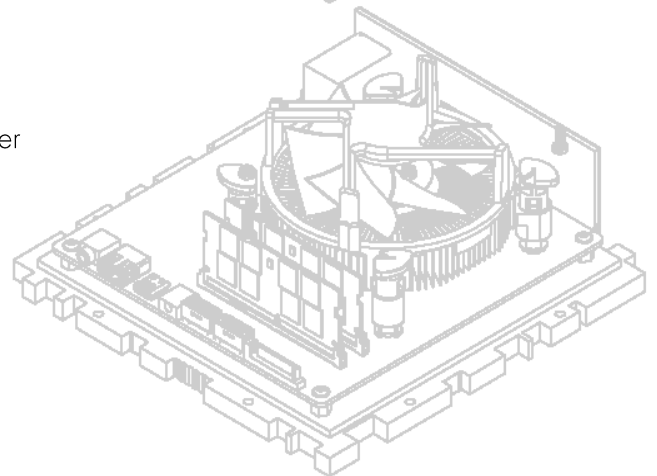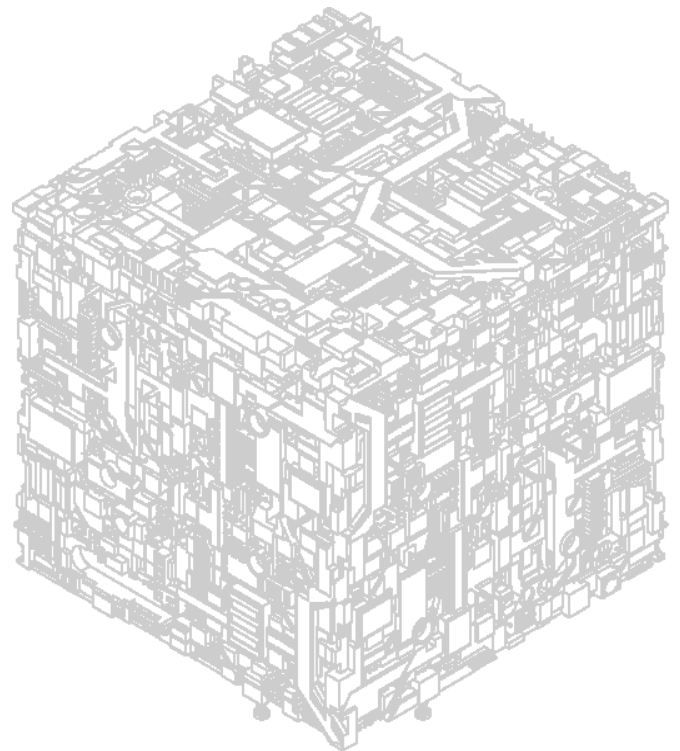
Form Factor: Mini STX
Motherboard Dimensions (WxL): 5.8" x 5.5"

Features:

Special Features:
- ASUS 5X Protection II:
    - ASUS LANGuard - 2.5X higher surge tolerance
    - ASUS Overvoltage Protection - World-class circuit-protecting power design
    - ASUS DIGI+ VRM - 3 Phase digital power design
    - ASUS DRAM Overcurrent Protection - Prevents damage from short circuits
    - ASUS Stainless-Steel Back I/O - 3X corrosion-resistance for greater durability
- 100% All High-quality Conductive Polymer Capacitors

Operating System Support:
- Windows 10, 64bit
- Windows 8.1, 64bit
- Windows 7, 32bit/64bit *1
- *1: Please refer to ASUS website and download "Windows 7 installation guide" and "ASUS EZ installer" to install Windows 7.

BIOS:
- 128MB Flash ROM, UEFI AMI BIOS, PnP, DMI 3.0, WfM 2.0, SM BIOS 3.0, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 3,CrashFree BIOS 3, My Favorites, Quick Note, Last Modified Log, F12 PrintScreen function,F6 Qfan Control

Manageability:
WfM 2.0, DMI 3.0, WOL by PME

Tips

If you love your Borg Micro Cube, it will love you. Follow these tips so your little companion cube can provide the maximum amount of love and hard work for you.

- **Do not place items on top of the cube:** There is a fan exhaust at the top to vent excess heat. Blocking the holes can overheat your system.
- **Provide the Cube with enough space to vent the heat.** Tight Enclosed spaces can still trap the heat in.
- **Keep the Cube away from liquids.** Liquids and electronics generally don't get along well.
- **Back up any important data:** Even the best computers can fail. Make sure you have a way to back up your software.
- **Install anti-Virus software.** Good anti-virus and malware software can prevent viruses and malware from attacking your machines.
- **Keep dust away from the computer.** Dust getting into your machine can cause problems like overheating. Keep it in a safe clean place, and try to limit the dust getting into the machine by keeping it clean.
- **Use an uninterruptible power supply to protect against power failures and surges.** Also known as an uninterruptible power source, UPS or battery backup, this an electrical apparatus that provides emergency power when the power fails. They also provide surge protection.
- **The internet is your friend.** Many problems with computers can be fixed by looking up problems with a quick internet search.

Troubleshooting

- *My PC won't power on.*
    - Make sure the power supply is plugged in and the system is getting power.
    - If the lights turn on, the PC is powered on.
- *My screen is blank.*
    - Make sure the computer is powered on. You can tell the PC is powered on by the fan.
    - Make sure you are connected to the right source input of your monitor.

- *My PC is getting a blue screen.*
    - This tends to be an issue with Windows. Allowing Windows to reboot itself a couple of times usually fixes it.
    - Microsoft has provided a troubleshooter to help you through any blue screen issues: https://support.microsoft.com/en-us/help/14238/windows-10-troubleshoot-blue-screen-errors
    - If you feel this is a hardware issue, contact support.
- *My computer is making noises like something is rolling around inside it.*
    - While we try to do everything we can to provide make sure your Borg Micro Cube is unharmed, we know delivery services can be rough. Contact Support and we'll do what we can to make you and your Micro Cube happy.
- *How can I fit a 12" GPU into this PC?*
    - The <u>Micro</u> Cube is 6"x6"x6". It's *not* bigger on the inside. Until we get TARDIS technology, we're limited by the STX motherboard and physical space. We can't fit a 12" video card into a 6" cube. Yes. We get calls on this.
    - We sell a full size ATX system known as the Borg VR Cube on our website. It can handle the latest games and was built specifically for VR. Visit http://mycherrytree.com to see the Borg VR Cube.

- *What's my password?*
    - Your password is generally your order number.
- *How do I change my password?*
    - Click the Start button at the bottom left of your screen.
    - Click Settings from the list to the left.
    - Select Accounts.
    - Select Sign-in options from the menu.
    - Click on Change under Change your account password.
    - Follow the onscreen instructions.
- *Where can I download the latest drivers?*
    - Windows Update can automatically update your drivers.
    - We also provide drivers links on our website.
    - You can visit the ASUS website for drivers:
      https://www.asus.com/Motherboards/H110S1/HelpDesk_Download/
- *3D Performance isn't that good.*
    - This PC doesn't have the PCI slot to fit a dedicated GPU, so we can't really upgrade the integrated video to provide better experience.
    - We sell a full size ATX system known as the Borg VR Cube on our website. It can handle the latest games and was built specifically for VR. Visit http://mycherrytree.com to see the Borg VR Cube.
- *Help, Help! I'm being assimilated.*
    - We're sorry, but resistance is futile. In cases of Borg assimilation, please contact your nearest Starfleet medical representative or Emergency Medical Hologram.
- *Help! I'm still having problems!*
    - Not to worry! We have several ways we can help you:
        - E-mail: lauren@mycherrytree.com
        - Phone: 1-(866) CHERRY-3
            - Our hours are Monday - Friday 9:00am - 5:00pm PST
        - Our website's support page: https://mycherrytree.com/support/

Warranty Information

LIMITED WARRANTY DETAILS

CherryTree Inc. warrants to the original buyer that any part of the hardware system, excluding software, documentation and similar items, will be free of defects in workmanship and materials for the period the warranty included with the purchase from the date of delivery to Customer. Unless stated otherwise, licensed PCs, Custom Gaming PCs and Workstations come with a one year warranty period. Extended Warranty Periods of 24 months and 36 months can be purchased during configuration. During the warranty period, CherryTree Inc. will repair or replace, at its sole discretion, the defective hardware system, for defects specified by you, free of charge for labor and/or parts depending on your warranty period. Parts may not be the same but will be equivalent parts. CherryTree Inc. will cover shipping costs back and forth and replace the part(s) within the first 30 days of receiving your computer system. After 30 days you will be held liable for shipping costs to CherryTree and CherryTree will cover return shipping back to you. The remedy for this breach of warranty is limited to replacement or repair with parts warranted for the remainder of the warranty period. Any additional purchases or upgrades will not extend this warranty. Excluded from this warranty is any damage caused during shipment (except the shipment to the original buyer) and any damage caused by: impacts, fluids, fire, flood, wind, earthquake, lightning or similar disaster; unauthorized modifications, attachments or peripherals, improper use, environment, installation or electrical supply; improper maintenance; any other misuse, abuse, or mishandling. CherryTree's sole liability, under this warranty, for failure to repair or replace the hardware system after a reasonable number of attempts is limited to replacement or, at CherryTree's sole discretion, refund of the original purchase price. The above constitutes buyer's exclusive remedies for breach of warranty. CherryTree shall, under no circumstances, be liable for any other damages, including but not limited to special, incidental, consequential and other similar claims whether based upon breach of contract, breach of warranty, negligence, or strict liability, or any other similar theories. Damages excluded include but are not limited to: loss of profit, loss of revenue, loss of data or software, loss of use of the hardware system, loss of use of related equipment, cost of substitute or replacement equipment, "down-time", purchaser's time, injury to property, and all claims of third parties. EXCEPT AS EXPRESSLY STATED HEREIN, CHERRYTREE MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF ANY KIND WITH RESPECT TO PRODUCTS SOLD BY CHERRYTREE. EXCEPT AS EXPRESSLY STATED HEREIN, CHERRYTREE. EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, OF ANY KIND WITH RESPECT TO PRODUCTS SOLD ON THIS SITE, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Depending on the term of the limited warranty, the coverage of labor and parts will vary.

The "1 Year Limited Warranty" covers labor costs for 1 year and direct defective part replacement service directly from CherryTree's inventory for 1 year. The "2 Year Limited Warranty" covers labor costs for 2 years and direct defective part replacement service directly from CherryTree's inventory for 1 year. After the first year, CherryTree will help replace any defective parts for the customer as long as those parts are still under warranty with the manufacturer. Certain components are covered usually from 3-5 years from the manufacturer. The "3 Year Limited Warranty" covers labor costs for 3 years and direct defective part replacement service directly from CherryTree's inventory for 1 year. After the first year, CherryTree will help replace any

defective parts for the customer as long as those parts are still under warranty with the manufacturer. Certain components are covered usually from 3-5 years from the manufacturer.

HOW TO OBTAIN SERVICE UNDER THIS WARRANTY
Call the Technical Support Department at (866) 243-7793. Have your order number and serial number available. The technical support staff will assist you in diagnosing the problem over the phone. If the problem cannot be resolved over the phone, we will decide on the best course of action for complete customer satisfaction. If return is authorized, please return the product. Do not return any products without prior authorization. Products returned without prior authorization will be rejected. CherryTree will not be responsible for consequential damage to the boards or the system or any of its components caused by either internal or external equipment, shorted connections or components not installed by or purchased from CherryTree. CherryTree will also not be responsible for damages to any components or loss of any data for goods purchased from CherryTree. The limited warranty also does not cover damages or defects that may have been caused by: Shipping damage (other than the original shipment), improper installation or maintenance, misuse, neglect or improper environment, repair, modification, adjustment, or installation of options or parts not by a CherryTree employee, inadequate or excessive electrical power surges, or other power irregularities. CherryTree will also not replace, repair, or refund on any purchase if the item serial numbers do not match, or if the product is not sold directly by CherryTree or if a "VOID WARRANTY" decal has been damaged, removed or tampered with. CherryTree will replace defective parts the same or equivalent to new parts at no cost. Any other part replacement that is different from the original configuration must be purchased at cost. Note: Do not include any accessories with your computer system for warranty repairs. If you do provide such materials, CherryTree will not be held responsible for any missing accessories such as software, adapters, etc. In the event no defect is found that is covered by the warranty, CherryTree will charge a test fee, advise the Customer and return the non- defective product when Customer pays the test fees and pays for return shipping. If such fees are not paid within 15 days after notification, the product shall be salvaged or disposed without any duty to account to Customer.

COSMETIC DAMAGES
CherryTree takes as much precaution to ensure that all of our systems leave our facility without any scratches or dents. To ensure we maintain this goal, a thorough external inspection is done prior to the computer being placed into the packaging box. Any cosmetic damages that are larger than the size of a U.S. dime will be taken care of by CherryTree if reported within the first 7 days of original delivery.

RETURN OF REPLACEMENT HARDWARE
If CherryTree does not receive replacement hardware back within 30 Days, CherryTree reserves the right to charge the customer for the value of the hardware, and/or, VOID the customer's warranty and technical support services.