DIGITAL MONSTER VER. 0NL1NE

Guide by bludragon1220 (Blu)

Contents:

Introduction:

- Welcome to Digital Monster Ver. 0NL1NE! This system is designed to allow for communication between Digimon Virtual Pets via the internet. Current compatibility includes the Digital Monster Ver.20th, the Digimon Pendulum Ver.20th, and any devices that use the original Digital Monster combat system.

The Circuit:

- ***NOTICE:*** This documentation is for the D-Com unit. As the more recently designed A-Com is the more commonly recommended device, please look into

how to build an A-Com in the Websites & Guides section of the discord server.

- The most integral component of the 0NL1NE system is the Digital Monster Communication Project (D-Com, for short), originally designed by BladeSabre of With the Will (.net). This device is what allows for the v-pet to connect to the computer.
- **WARNING: If you do not use the correct parts listed by specific characteristics, it may result in damage to your V-Pet. Please be cautious about this, as we all know how expensive v-pets can be.**

Circuit Components:

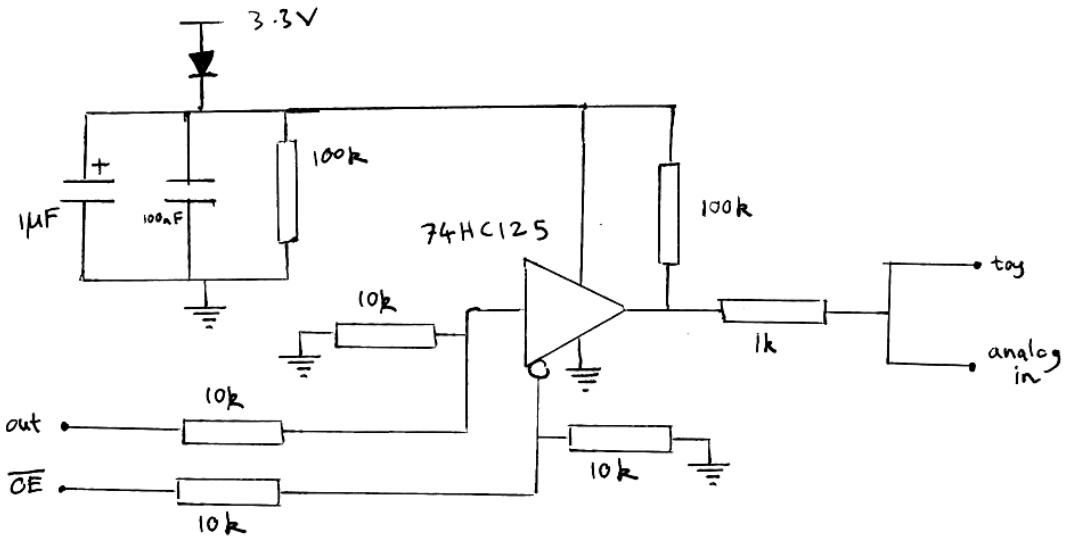
- Breadboard and wires
- Buffer, 74HC125, 2 V to 6 V, DIP-14

- Electrolytic Capacitor, 1 µF
- Multilayer Ceramic Capacitor, 0.1 µF
- Sets of the following resistors
    a) 1K Resistor
    b) 100K Resistor
    c) 10K Resistor
- FDH300TR - Small Signal Diode, Single, 200 mA, 750 mV, 4 A (make sure this part is the same as the one listed here)
- Arduino Mini USB CH340G Nano V3.0 16M 5V ATmega328P Micro-Controller Board V3 (Can be found here: https://www.ebay.com/itm/Mini-Nano-V3-0-ATmega328P-Micro-controller-Board-USB-Cable-For-Arduino-US-STOCK/353012804265?epid=17023751468&hash=item523133eaa9:g:BbgAAOSw9m9ckgl2)

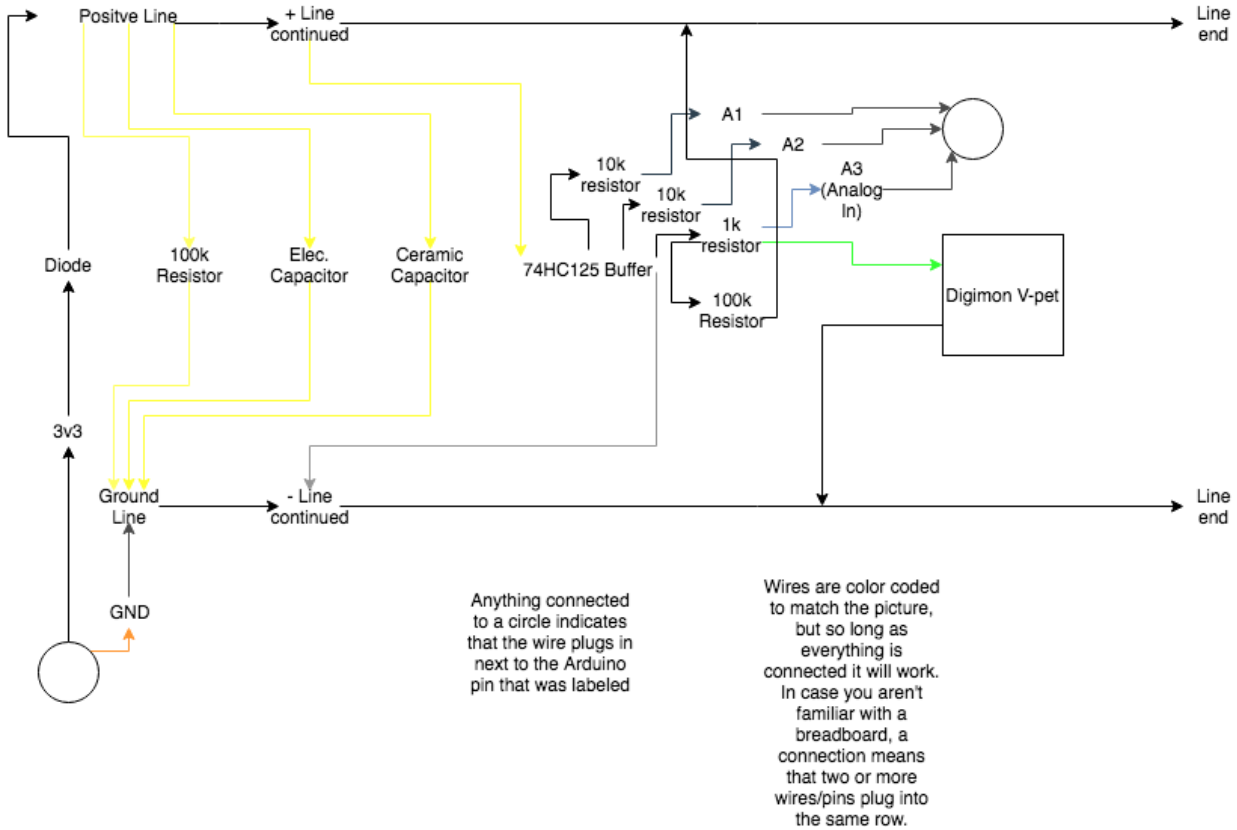
- The total cost for 1 D-Com is about $21 USD
- Need help finding somewhere to buy the parts? Check out our Shopping List!
- Don't feel up to the task of building it yourself? Our discord server has a market channel where you cam purchase one, safe from Bandai's ninja lawyers.

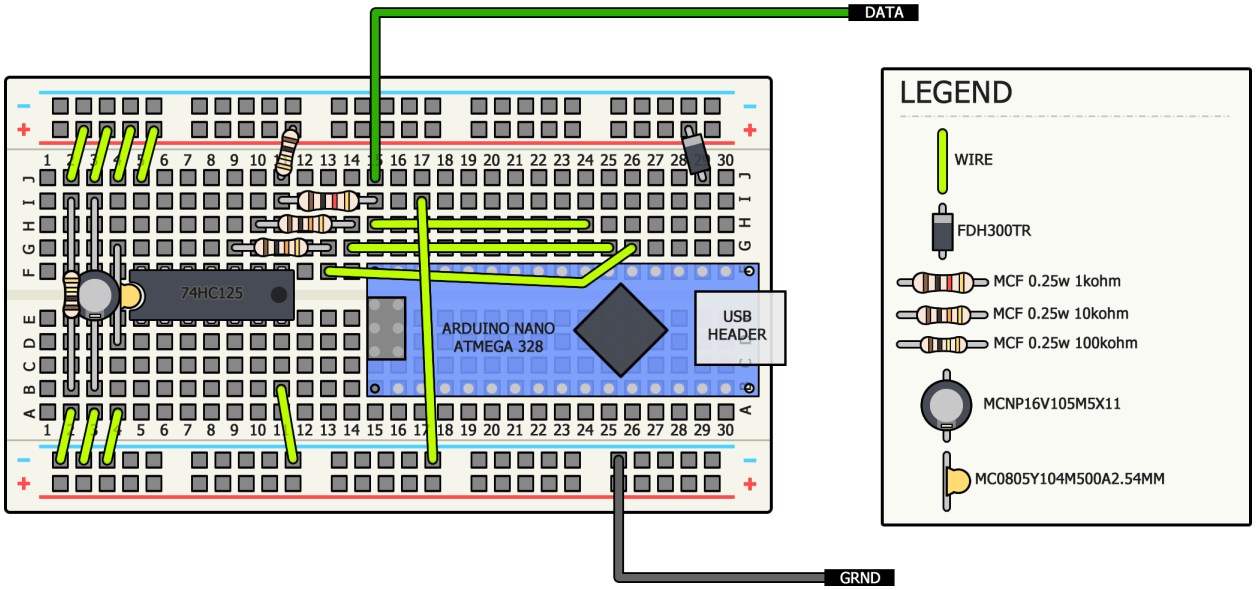
Circuit Assembly:

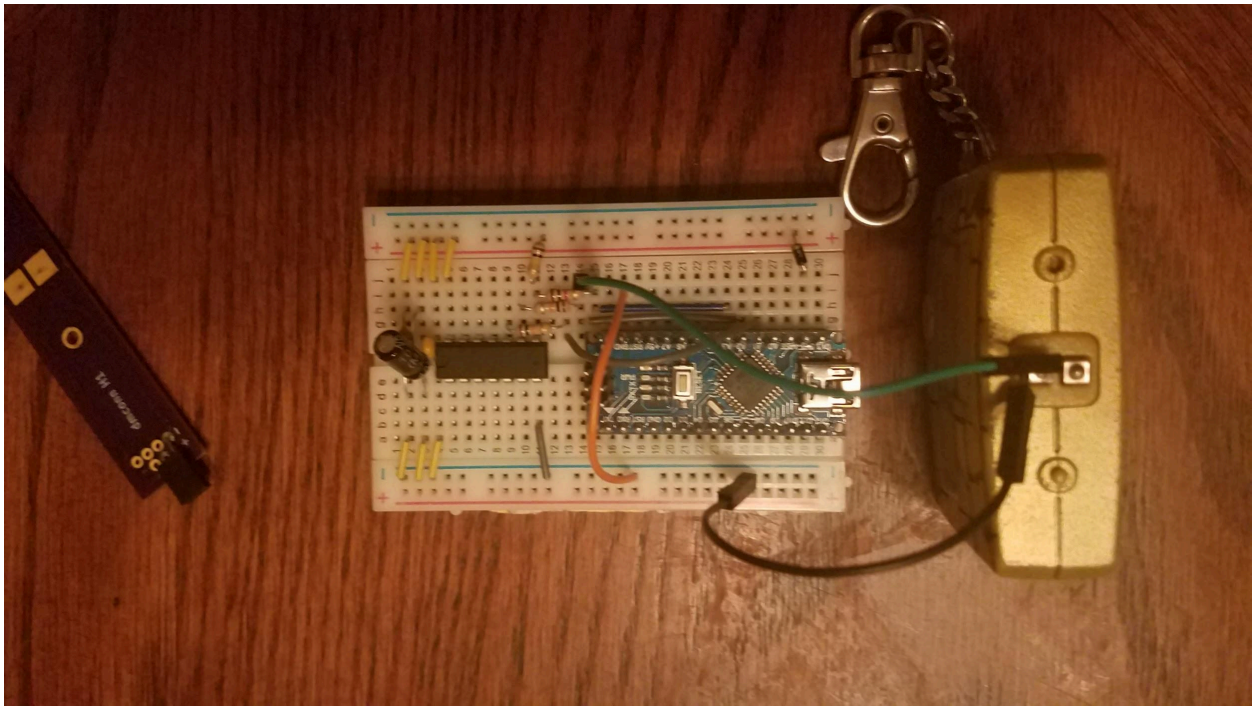
- For Ben’s (no, really, that’s his full username) A-Com circuit guide, please check here: Alpha | Guide (alphahub.site)
- The circuit is assembled as shown in the diagrams below



(Below images are from an older model)







Software:

The software is what allows the D-Com circuit to serve as a simulated version of a

second v-pet. It's through this simulation that we can connect our v-pets!

Software Required:

- To use the D-Com, you will need Arduino IDE and the D-Com.ino file, an internet browser, and an instant messaging system.

Software Set-up:

1) First, make sure you have both the IDe installed and .ino file downloaded. Open the .ino file and follow all the prompts the IDE gives you. (For those familiar with arduino, this is the same as downloading a new sketch)

2) Once the file/sketch is ready, connect the D-Com to the computer via USB cord. Go into “Tools” and make sure that:
   - Board is set to “Arduino Nano”
   - Processor is set to “ATmega328P (Old Bootloader)” or “ATmega328P” depending on how old your arduino chip is. Just try them both
   - Port is set to whichever port was not available before you plugged in the D-Com. If a new port does not appear, please refer to the Troubleshooting section.
3) Upload the program to the board. Then, open the serial monitor (under Tools, but can be opened with a

keyboard shortcut, i.e. “ctrl+shift+m” on a Windows computer)

4) Input the dummy code for the preffered action. See the “Using 0NL1NE” for details

Software Download:

- Arduino IDE is available here: https://www.arduino.cc/en/Main/Software
- This is the most current D-Com version: https://drive.google.com/file/d/1LTU...ew?usp=sharing

Using 0NL1NE:

0NL1NE is at this stage a formula guide on how to use the D-Com as a means of connecting Digimon devices over the internet, though I/We hope to expand on it in the future.

Code extraction:

In order to send digimon back and forth over the internet, we use input codes called “DigiROM’s” (Digital Read-Only-Memory), named such because of how the program uses them. These are extracted from the serial monitor as follows.

1) First, put in the “Dummy code” (listed below) for the action you wish to communicate (single battle, copy, etc.) See Code Help for a list of Dummy Codes
2) After sending the dummy code to the D-Com, connect your virtual pet to the device. Once you’ve initiated communication,

you'll see a back and forth "conversation" on the serial monitor, which would look like this: "s:0101 r:1332 s:0101 r:0002 ..." Copy this into a messaging software or document.

3) Go to "Code conversion" on our website and paste the serial response into the "input" area, then click "Convert". Our website can be found here

4) Your DigiROM is complete and copied to clipboard! It can now be sent to other 0NL1NE users via email or other instant messaging systems

To use a DigiROM you received from another user, simply enter the code into the serial monitor and hit send. Hit the B button on the v-pet to initiate communication.

Community:

Our discord server can be found here

Credits:

I would like to thank the following:

- Bladesabre, for allowing me use of the D-Com, as well as helping me with understanding how the codes work.
- Hari Seldon & MonOfLeters, Testing my D-Com build and 0NL1NE formulas
- The 0NL1NE development team for cracking the codes for more and more devices, and Humulos, Seki, and Ben specifically for how they've expanded this system
- And finally, Bandai Namco for making this wonderful series. Digimon has had a huge

positive influence on my life, and I hope to be able to return the favor and pass it forward.

If you have any questions, feel free to contact me at bludragon1220@gmail.com, or on discord via the server listed above