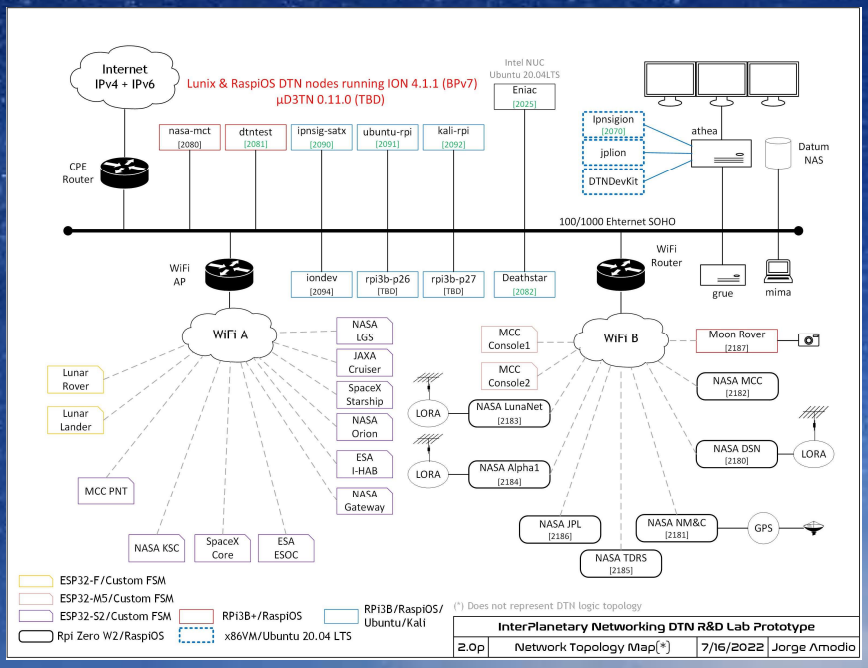
IPN DTN Lab
(7/29/2022)

- ~35 local nodes
- 18 ION 4.1.1
- 2 µ3DTN 0.11.0 (TBD)
- 18 Rpi's
- 15 ESP32
- 1 VM
- 1 Intel NUC

Experimenting
- 4 new LoRa boards
- Cellular LTE-M1
- SWARM microsat (TBD)

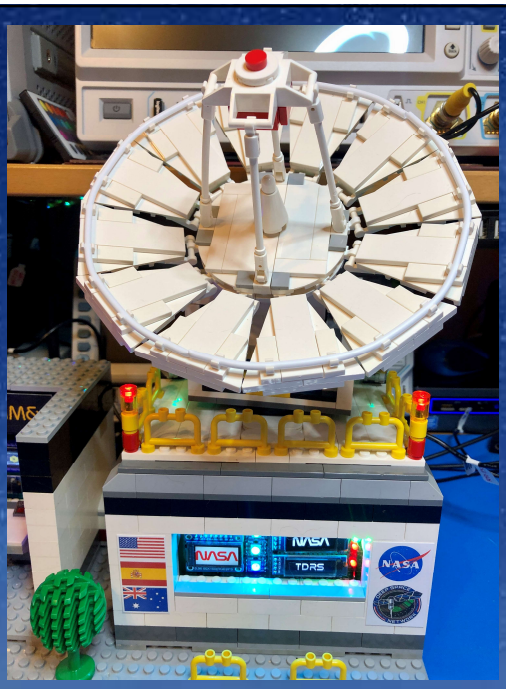
- ION LSA code dev how to



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DSN Antenna Complex

- All features working
- 3x Raspberry Pi Zero W2
- 1x LoRa modem module
- 1x GPS module



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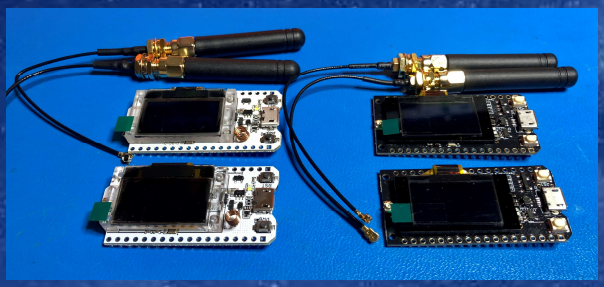
Organized the pileup of Raspberry Pi's

- On this stack four are running RaspiOS (Debian)
- One is running Ubuntu Linux
- One is running Kali Linux

- Four running ION 4.1.1
- Two will run µ3DTN

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LoRa + WiFi

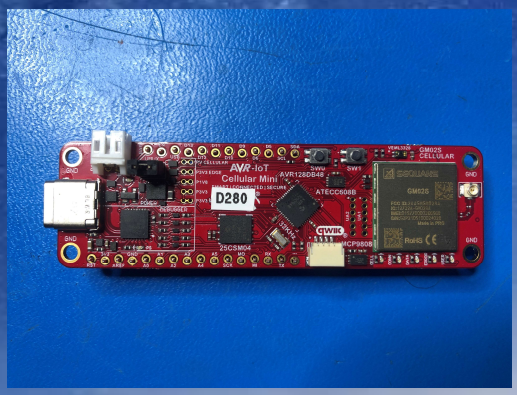


SWARM 318 - Microsat



Various modems under testing or soon to be tested

LTE C M1



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KSC Launch Center Lego Mockup

- Raspberry Pi3B+
- RaspiOS
- ION 4.1.1
- All displays working

- ESP32-C3 Microstamp to drive alphanumeric LED display

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KSC Launch Center
Lego mockup design
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