

## DPRG RBNV Chat Record - 5/4/2021

**Note:** You is Carl Ott

You

7:45 PM

As Murray was mentioning - we now have a Discord server set up - can be a convenient way to have threads of conversations - So please feel free to accept this invitation & jump in... <https://discord.gg/UMxJFfHT> The invitation should remain valid for a few days or maybe a week...

Robots New Zealand

8:10 PM

Invite to Discord's Personal Robotics: <https://discord.gg/6wz5bUVn>

doug paradis

8:15 PM

Pololu 4-Channel RC Servo Multiplexer - <https://www.pololu.com/product/2806>

You

8:17 PM

[https://smile.amazon.com/dp/B08FLVGTXQ?psc=1&ref=ppx\\_yo2\\_dt\\_b\\_product\\_details](https://smile.amazon.com/dp/B08FLVGTXQ?psc=1&ref=ppx_yo2_dt_b_product_details) RC Remote Controlled AUX on/Off Electronic Switch Relay for Car Truck Boat LED Light Drone (8A) [https://smile.amazon.com/dp/B089YV23Y9?psc=1&ref=ppx\\_yo2\\_dt\\_b\\_product\\_details](https://smile.amazon.com/dp/B089YV23Y9?psc=1&ref=ppx_yo2_dt_b_product_details) Huayao10PC S DC 5V-36V 15A(Max 30A) 400W Dual High-Power MOSFET Trigger Switch Drive Module 0-20KHz PWM Adjustment Electronic Switch Control Board Motor Speed Control Lamp Brightness Control

Larry Sniderman

8:29 PM

What is a source for 12V & 24 V Li Batteries and chargers

You

8:30 PM

Larry - what kind of battery packs? what capacities? You want individual cells or full blown packs?

Ray

8:31 PM

In North America, there are 64, 125 kHz LoRa uplink channels defined, centered on a 200 kHz raster as can be seen in Figure 5. 11. There are eight 500 kHz uplink channels as well as eight, 500 kHz downlink channels defined.

Larry Sniderman

8:33 PM

Looking for packs. I want to be driving 6 steppers for about 30 mins. I don't know Amp Hrs.

I am exploring.

You

8:37 PM

I have an older version of this Electrify Triton charger - I've been very pleased with it - it's very versatile, and includes balancing ability for 6 cell LiPos [https://www.rctarget.com/ElectriFly-Triton-EQ-ACDC-Charger\\_p\\_614.html](https://www.rctarget.com/ElectriFly-Triton-EQ-ACDC-Charger_p_614.html)

You

8:40 PM

in a pinch, you can even use it to charge the 12V lead acid in your car ;-)

Ponder SomeMore

8:40 PM

hate to keep hawking REV stuff but:

<https://www.revrobotics.com/rev-11-1144/>

servo power injector

You

8:41 PM

Karim - no shame in recommending cool parts - that Rev servo power injector looks very interesting...

Ponder SomeMore

8:42 PM

we use them a lot

15amps

Ray

8:45 PM

red pill or blue pill?

Ponder SomeMore

8:46 PM

so that's where the thrumming is coming from?

You

8:47 PM

Unclear where thrumming from - I muted myself and Harold - wasn't us...

Kevin Shin

8:47 PM

Gotta run, but thank you for the great meeting!

Pat Caron

8:47 PM

sound from ultrasonic sensors?

Ponder SomeMore

8:48 PM

yeah we are hearing it

You

8:50 PM

i'm a little surprised that sound from ultrasonic sensors is carrying across the web share codecs. Surely the microphones themselves have enough bandwidth - maybe sub-multiples of the sensors are getting through?

Ponder SomeMore

8:54 PM

hearing it again

You

8:57 PM

I bet the mechanism is the audio equivalent of what happened 15 or 20 years ago with TDMA based cell phones - you'd have a burst of 1900 MHz RF data every 20 ms, and wired phones or wired microphones with poor EMC would detect those bursts and couple them in as audio clicking noise...

Pat Caron

9:02 PM

What time is Saturdays meeting/presentation?

You

9:03 PM

As a reminder - our upcoming presentation on ExoMy - this Saturday: Outdoor Rover Series: ExoMy-Open-Source Model from The European Space Agency

Saturday, May 8, 2021 1:00 PM to 3:00 PM CDT\

<https://www.meetup.com/Build-More-Robots-with-DPRG/events/277646600/>

Ponder SomeMore

9:04 PM

lol, the humming/thrumming might be coming from Dave Ackley's setup

Pat Caron

9:05 PM

Thanks, it's in my calander now

Larry Sniderman

9:12 PM

Thanks for the Power sources.

Pat Caron

9:17 PM

See you on Saturday. I have an early morning tomorrow.

Ponder SomeMore

9:31 PM

backwards

You

9:32 PM

ha ha - backwards...

Ponder SomeMore

9:33 PM

darth vader sent it

super IK

Ponder SomeMore

9:34 PM

cool

You

9:37 PM

from the earlier conversation - using TinyML with anomaly detection. Learned about this ML service / toolset vendor from one of the Hackster meetups. This example shows how to use their toolset to generate a gesture classifier that runs on a microcontroller <https://docs.edgeimpulse.com/docs/continuous-motion-recognition>

Ponder SomeMore

9:40 PM

harold's getting queasy

You

9:40 PM

sorry Harold

Ponder SomeMore

9:43 PM

CCD = crunchy cyst detector

You

9:48 PM

anybody tried one of these MEMs ultrasonic sensors? [https://usa.banggood.com/DYP-A02YY-PWM-or-UART-DC5V-Ultrasonic-Ranging-Sensors-Ultrasonic-Waterproof-Distance-Sensor-Waterproof-Probe-Ultrasonic-module-p-1616182.html?utm\\_source=googleshopping&utm\\_medium=cpc\\_organic&gmcCountry=US&utm\\_content=minha&utm\\_campaign=minha-usg-pc&currency=USD&cur\\_warehouse=CN&createTmp=1&ID=6285053&utm\\_source=googleshopping&utm\\_medium=cpc\\_bgcs&utm\\_content=frank&utm\\_campaign=pla-usg-rm-all-purchase-pc&ad\\_id=3221298675](https://usa.banggood.com/DYP-A02YY-PWM-or-UART-DC5V-Ultrasonic-Ranging-Sensors-Ultrasonic-Waterproof-Distance-Sensor-Waterproof-Probe-Ultrasonic-module-p-1616182.html?utm_source=googleshopping&utm_medium=cpc_organic&gmcCountry=US&utm_content=minha&utm_campaign=minha-usg-pc&currency=USD&cur_warehouse=CN&createTmp=1&ID=6285053&utm_source=googleshopping&utm_medium=cpc_bgcs&utm_content=frank&utm_campaign=pla-usg-rm-all-purchase-pc&ad_id=3221298675)

DYP-A02YY PWM / UART DC5V Ultrasonic Ranging Sensors Ultrasonic Waterproof Distance Sensor Waterproof Probe Ultrasonic module - PWM pulse width

You

9:50 PM

or anybody try one of these ultrasonic sensor from DFRobot - looks like an automotive module...  
Weatherproof Ultrasonic Sensor w/ Separate Probe [https://www.robotshop.com/en/weatherproof-ultrasonic-sensor-separate-probe.html?gclid=Cj0KCQjw4cOEBhDMARIsAA3XDRh06ZeyHEZY6nGXogIP5xq4B803DDt3xoP\\_wNcOqFZwIhG1CEhyz\\_4aAh5NEALw\\_wcB](https://www.robotshop.com/en/weatherproof-ultrasonic-sensor-separate-probe.html?gclid=Cj0KCQjw4cOEBhDMARIsAA3XDRh06ZeyHEZY6nGXogIP5xq4B803DDt3xoP_wNcOqFZwIhG1CEhyz_4aAh5NEALw_wcB)

Larry Sniderman

9:59 PM

Bye y'all

Ponder SomeMore

10:08 PM

Murray, you might want to look at gobilda and the revrobotics FTC scale stuff - all metric

You

10:09 PM

Karim - nice source <https://www.gobilda.com/hardware/>

<https://www.gobilda.com/structure/>

Chris N

10:11 PM

It's getting late on the coast.... Till next time

Ray

10:12 PM

[mpja.com](http://mpja.com), electronic goldmine, [alltronics.com](http://alltronics.com), [allelectronics.com](http://allelectronics.com), [herbach.com](http://herbach.com), [surpluscenter.com](http://surpluscenter.com),  
american science and surplus