

## DPRG RBNV Chat Record – August 15, 2023

Carl Ott

7:42 PM

~7:41pm - Ray shared an update on his LilyGo ESP32 board with built-in IoT cellular connections.

Carl Ott

7:44 PM

Had issues with the LilyGo module, so sent it back for replacement and started looking at alternate boards, all based on the SIM7080G LTE CAT-M NB-IoT Module.

Carl Ott

7:48 PM

Ray - now revisiting the decision to use an all-in-one breakout board, versus several smaller break-out boards - so that if one function fails, you only have to replace one of the smaller breakout boards, and not an entire all-in-one breakout board...

Carl Ott

7:58 PM

here's one candidate of a voltage/current signal module pair [https://www.amazon.com/Ximimark-Converter-Transmitter-Conversion-Conditioning/dp/B07MYXVDDX/ref=sr\\_1\\_2?crd=1TEZX3SF8D3J0](https://www.amazon.com/Ximimark-Converter-Transmitter-Conversion-Conditioning/dp/B07MYXVDDX/ref=sr_1_2?crd=1TEZX3SF8D3J0)

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that was per a search for [https://www.amazon.com/Ximimark-Converter-Transmitter-Conversion-Conditioning/dp/B07MYXVDDX/ref=sr\\_1\\_2?crd=1TEZX3SF8D3J0](https://www.amazon.com/Ximimark-Converter-Transmitter-Conversion-Conditioning/dp/B07MYXVDDX/ref=sr_1_2?crd=1TEZX3SF8D3J0)

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Carl Ott

7:59 PM

here's even more options [https://www.amazon.com/HiLetgo-Level-Converter-Board-Rs232/dp/B00LUDCAXQ/ref=sr\\_1\\_7?crd=1TEZX3SF8D3J0](https://www.amazon.com/HiLetgo-Level-Converter-Board-Rs232/dp/B00LUDCAXQ/ref=sr_1_7?crd=1TEZX3SF8D3J0)

[https://www.amazon.com/MiOYOOOW-Conversion-Voltage-Current-Protection/dp/B0B5TZ15NQ/ref=sr\\_1\\_16?crd=1TEZX3SF8D3J0](https://www.amazon.com/MiOYOOOW-Conversion-Voltage-Current-Protection/dp/B0B5TZ15NQ/ref=sr_1_16?crd=1TEZX3SF8D3J0)

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Carl Ott

8:07 PM

~8:06pm - Mike waiting on the latest OpenMV Cam. Meanwhile - working on a DMX compatible lighting controller.

Carl Ott

8:10 PM

~8:10pm - Mike showed his DMX controller setup, including test bed to learn web-page driven configuration / learning JavaScript / JSON and related things..

Carl Ott

8:27 PM

This is the open-source signal analysis software package I mentioned - Sigrok. Unfortunately - it doesn't appear to have a DMX protocol decoder built-in [https://sigrok.org/wiki/Main\\_Page](https://sigrok.org/wiki/Main_Page)

[https://sigrok.org/wiki/Main\\_Page](https://sigrok.org/wiki/Main_Page)

Carl Ott

8:29 PM

but it can decode quite a long list of different protocols - some of which could be useful for hobby robots:

[https://sigrok.org/wiki/Protocol\\_decoders](https://sigrok.org/wiki/Protocol_decoders)

Carl Ott

8:37 PM

~8:36pm Doug P gave an update on his desktop CNC router.

Carl Ott

8:50 PM

~8:49pm - Doug also talked about his Laser cutter / got it working after replacing some parts & doing some upgrades...

Carl Ott

8:59 PM

Hey guys - Reminder - - I need to step aside for a bit for a work call - so please carry on and I'll rejoin if I can before the DPRG meeting is over...

Also - we have open mic after Doug.

Pat Caron

9:00 PM

I've got an early day tomorrow. See you all in a couple of weeks.

ed mart

9:08 PM

will it pickup Horse apples?

John K

9:09 PM

<https://www.instructables.com/Multi-Purpose-Rover-Robot/>