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Engagement

Author: tariq.ahmad

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Attendees

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- ds2112
- roger-takeshita
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- rmccranie
- sulolabs
- ian_standley
- ramsaban
- shashanknama
- s.kishore1998
- charbar129

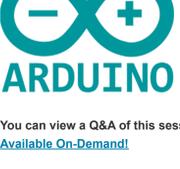
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LoRa Meets Arduino, a Journey in the LPWAN World

Watch On-Demand

When
10 Jun 2020 11:00 AM to 12:00 PM Central Time (US & Canada)

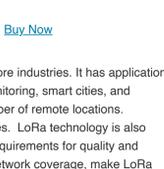
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You can view a Q&A of this session here: [Webinar Briefing & FAQ: LoRa Meets Arduino, a Journey in the LPWAN World is Available On-Demand!](#)



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LoRa and LoRaWAN enable inexpensive, long-range connectivity for IoT devices in rural, remote, and offshore industries. It has applications in industrial automation, manufacturing, precision farming, smart grid, pipeline monitoring, environment monitoring, smart cities, and healthcare. It is usually suited to applications in which data has to be gathered and aggregated from a number of remote locations. LoRaWAN can also be utilized as part of a smart IoT system, in combination with other LPWAN technologies. LoRa technology is also ideal for outlying regions without cellular network coverage, or establishing private networks with specific requirements for quality and security. The ability to operate on unlicensed bands, ability to operate in outlying regions without cellular network coverage, make LoRa technology ideal for rural areas, opening up the technology for smart agriculture.

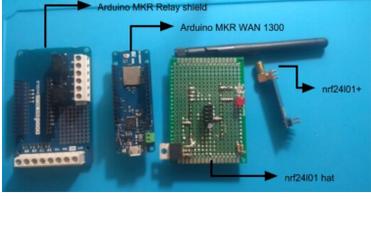
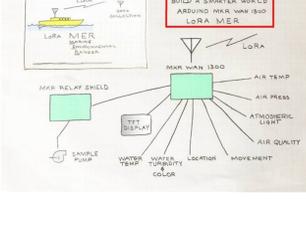
During this webinar, Andrea Richetta, head of the Pro/IoT market at Arduino will give an overview of the LPWAN world, focusing on LoRa and the available solutions from Arduino. You'll learn how to create a complete end to end solution using Arduino hardware (boards, shields and a gateway) and the Arduino IoT Cloud. We will be giving away a pair of MKR WAN 1310 boards to 5 attendees who ask the best questions. The MKR WAN 1310, brings in a series of improvements when compared to its predecessor, the MKR WAN 1300. While still based on the Microchip® SAMD21 low power processor, the Murata CMWX1ZZABZ LoRa® module, and the MKR family's characteristic crypto chip (the ECC508), the MKR WAN 1310 includes a new battery charger, a 2MByte SPI Flash, and improved control of the board's power consumption. Additionally, Arduino will be offering Arduino branded swag such as T-shirts, hoodies, and possibly mugs!

Agenda:

- Introduction to LPWAN (Low Power Wide Area Network)
- Overview of the different technologies (NbioT, Sigfox, LoRa)
- Overview on LoRa technology
- Focus on Arduino MKR WAN 1310
- Focus on Arduino Pro Gateway for LoRa
- Creating a dashboard in the Arduino IoT Cloud
- Use cases
- Q&A

Who should attend:

- Anyone who is interested in the Low Power Wide Area network solutions and wants to understand how Arduino can enable fast and easy deployment. There's no need for any specific knowledge in this sector.



Additional Resources:

- [Arduino MKR WAN 1300 Pinout, SAMD21 Pin Mapping, Tech Specs, Schematics, Eagle Files, Reference Links, Github, FAQ, and More!](#)
- [MKR WAN 1300: LoRa Marine Environmental Ranger](#) by fmlburn
- [LoRa GeLo MKR - Long Range Geo-Locator MKR 1300](#) by dougw
- [Building EPCC - Elderly Person in the Community Care](#) by 14rth
- [Communal-based Access Control using Arduino MKR WAN 1300](#) by BigG
- [LoRa Experimental Environmental Sensors \(LoRaXes\) - Conclusion](#) by ralphjy
- [tinyMonster - Smart watch for kids with SOS and RT Tracker](#) by mahmood.hassan
- [Arduino MKR WAN 1300: Detecting forestry fire using LoRa Protocol](#) by danilo094
- [LoRa Agri-node and some other stuff](#) by hob0

The Presenter

Andrea Richetta, Head of Pro / IoT market at Arduino

Andrea Richetta is Head of the Pro / IoT Business Unit at Arduino. His role is to provide solutions to the companies that want to integrate and leverage the various Arduino solutions into their business. Joined Arduino in 2014, before this role, he was the product manager then responsible for manufacturing, then Product manager for the Hardware department. Before joining Arduino, he was ICT Manager in a multinational company in the events industry.



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Top Comments

- **tariq.ahmad** over 5 years ago +9
The FAQ for this webinar has been posted: [Webinar Briefing & FAQ: LoRa Meets Arduino, a Journey in the LPWAN World is Available On-Demand!](#) Additionally, Andrea has highlighted and ranked his favorite questions...
- **colporteur** over 5 years ago in reply to dubbie +6
Your point about gaining knowledge to understand concepts was what I got out of the webinar. I had an epiphany when I my ear finally translated the speaker diction of LoRaONE to LoRaWAN. LoRa is the proprietary...
- **tariq.ahmad** over 5 years ago in reply to embeddedguy +5
Hi embeddedguy, Typically, these webinars last for an hour. We ran this webinar as long as possible and with the sheer volume of questions we could have run the webinar even longer and it would still...

Oldest **Best** Newest

• **tariq.ahmad** over 5 years ago
The FAQ for this webinar has been posted:

[Webinar Briefing & FAQ: LoRa Meets Arduino, a Journey in the LPWAN World is Available On-Demand!](#)

Additionally, Andrea has highlighted and ranked his favorite questions. Based on that the following members will receive a pair of MKR 1310 boards:

[riklaunim](#), [Jan Cumps](#), [gordonmx](#), [luislabmo](#), and [dubbie](#).

Additionally, we will be sending out Arduino swag to other questions that were highlighted after we receive it so you will have another chance to win if you did not win something this round!

• **dubbie** over 5 years ago in reply to tariq.ahmad
Tariq,

This is great news. I learned a great deal from the webinar and I think I will have to watch it again in preparation for using the MKR 1310 boards. I don't have much radio experience so I'm pleased to be awarded these boards and I am looking forward to using them. Not sure what for yet though. Maybe something to do with mobile robots although I think my question was about that and the answer was that LoRa wasn't good for this type of control but maybe for monitoring and low data rate sensor information. Alternatively maybe something for the next Project14 challenge - Art meets LoRa maybe!

Dubbie

• **riklaunim** over 5 years ago in reply to tariq.ahmad
Nice 😊 Will have to do some project/tutorial with them.

• **luislabmo** over 5 years ago in reply to tariq.ahmad
Awesome! Thanks for the great news.

Luis

• **luislabmo** over 5 years ago
Today something arrived in the mail.



Thanks again tariq.ahmad, element14 and everyone involved for a very educational webinar.

Luis

• **gordonmx** over 5 years ago in reply to luislabmo
Luis,

My pair of MKR WAN 1310s arrived today and I can't wait to try them out. Did your package include the Nano 33 IoT board as shown in the your picture? Just curious because the prize offered was just the pair of 1310s, which in and of itself is greatly appreciated (and useful).

Gordon

• **amirengineer2019** over 5 years ago
I'd a Question that was unfortunately not delivered to Andrea, I'm building and IOT system based on the LoRaWAN but with another solution that supports other LPWAN Technologies like (Wifi - beside the LoRaWAN) which is very handy when we need to upgrade the firmware of the node, Since the Gateway down-link is very limited in data rate we can't use it to perform the update, we use the Wifi to perform OTA (over the air) upgrade to the firmware and that avoid us the need to connect other hardware or cables to make the upgrade (which is not easy some times due to the place of the node). So my question was does the Arduino MKR 1310 supports this feature also (OTA) or we must buy another Arduino Shield to perform it?

Other question, Due to the internet connection buffering that happened I was not able to see the part about the Arduino Cloud, but I wanted to ask if it perform the same as the TTN (the things networks) functionality? and if so what are the limitations that's added (plus the existing limitations of the LORAWAN that's set by semtech)?

What Arduino Cloud could do better than TTN?

• **tariq.ahmad** over 5 years ago in reply to amirengineer2019
Hi [amirengineer2019](#),

I will see that these questions get to him. Those are both very good questions.

• **amirengineer2019** over 5 years ago in reply to tariq.ahmad
Good afternoon Tariq, How could we know the responses of the questions and when?

• **ralphjy** over 5 years ago
Hi Tariq,

There was a question about the MKR WAN 1310 that I wanted to ask - but not sure if it was asked.

The limitation of using the SPI interface simultaneously with the LoRa modem - does that only apply to the Flash memory or does that apply to other SPI? Can Andreas explain the issue.

Thanks,

Ralph

• **tariq.ahmad** over 5 years ago in reply to ralphjy
I will deliver this question to him. Thanks [ralphjy](#).

• **jocol** over 5 years ago
Looking forward to listen and ask all about Arduino and LoRa 😊

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