

IoT in der Schweiz

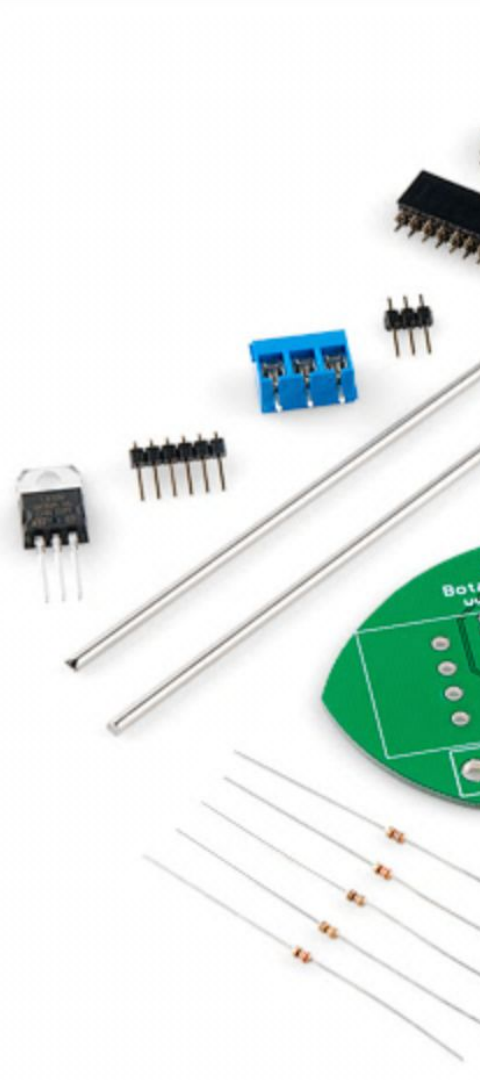
thomas.amberg@yaler.net

Internet of Things (IoT)



Internet-verbundene Computer
mit Sensoren und Aktuatoren

"Physische Objekte mit Web API"



Bier-Tank leer -- neue App schlägt Alarm!

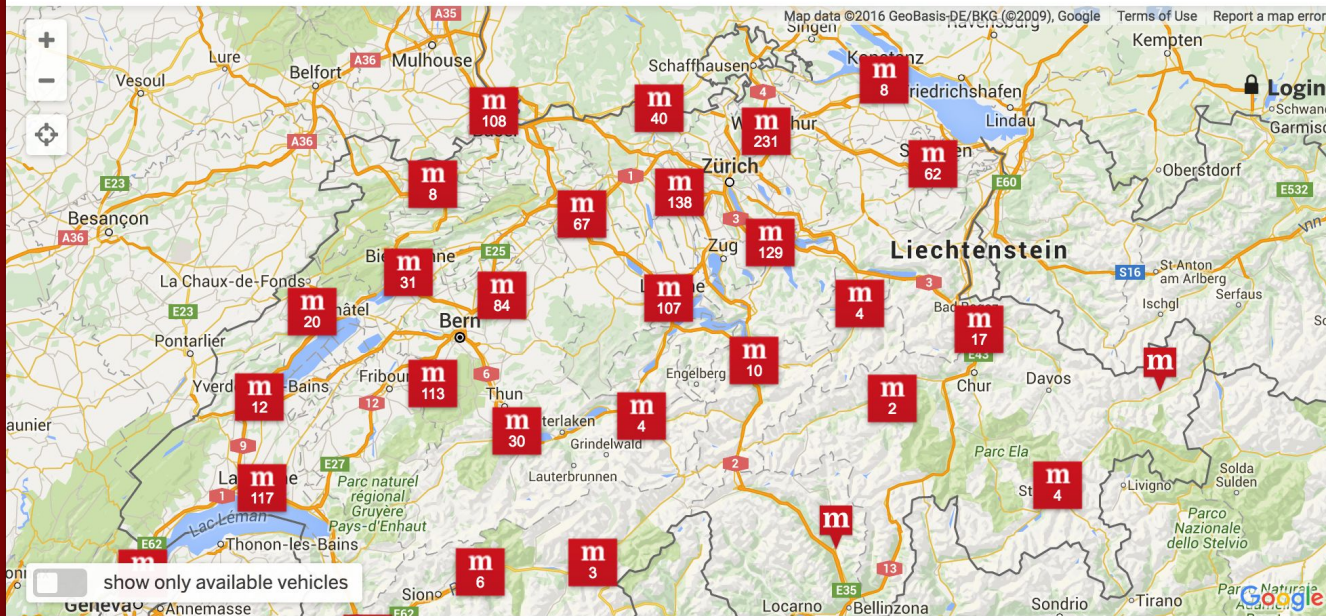


▶ ⏮ 🔊 0:58 / 1:37



mobility
car sharing

How it works Solutions Mobility stations Vehicles Become a customer



Find a station...



06/06/2016 / 02:30 - 06/06/2016 / 05:30



All



Go! →

mobility
car sharing








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COMFYLIGHT - THE LEARNING LIGHT THAT PROTECTS YOUR HOME



Tech Talk | Gadgets | Consumer Electronics

CogniToys Leverages Watson's Brain to Befriend, Teach Your Kids

By Evan Ackerman

Posted 20 Feb 2015 | 0:19 GMT

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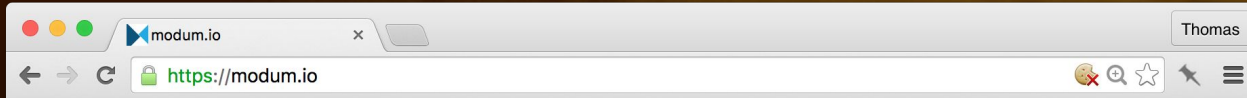
Tech Talk

IEEE Spectrum's general technology blog, featuring news, analysis, and opinions about engineering, consumer electronics, and technology and society, from the editorial staff and freelance contributors.

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modum creates sensor devices leveraging blockchain technology to assert data immutability and public accessibility while saving costs in the pharma supply chain.

Our product monitors the temperature of each parcel during the shipment to fully ensure GDP regulations. All data is transferred to the blockchain where a smart contract assesses against the product attributes.

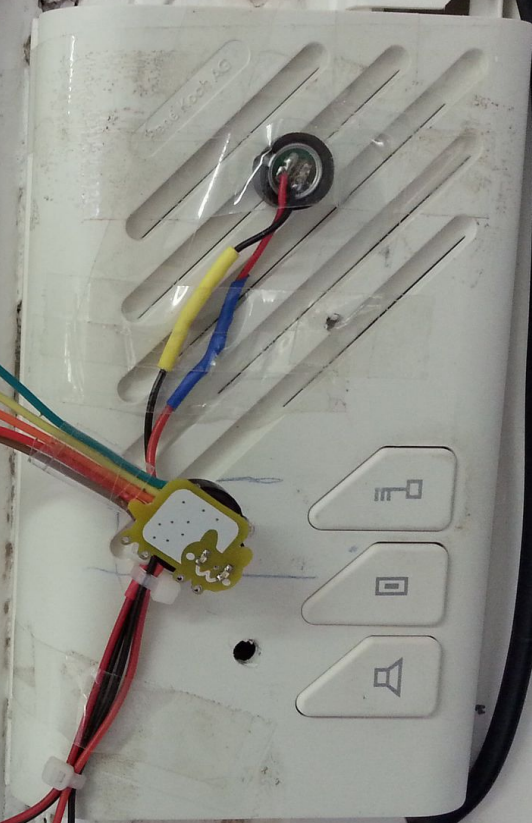
We are monitoring first shipments by

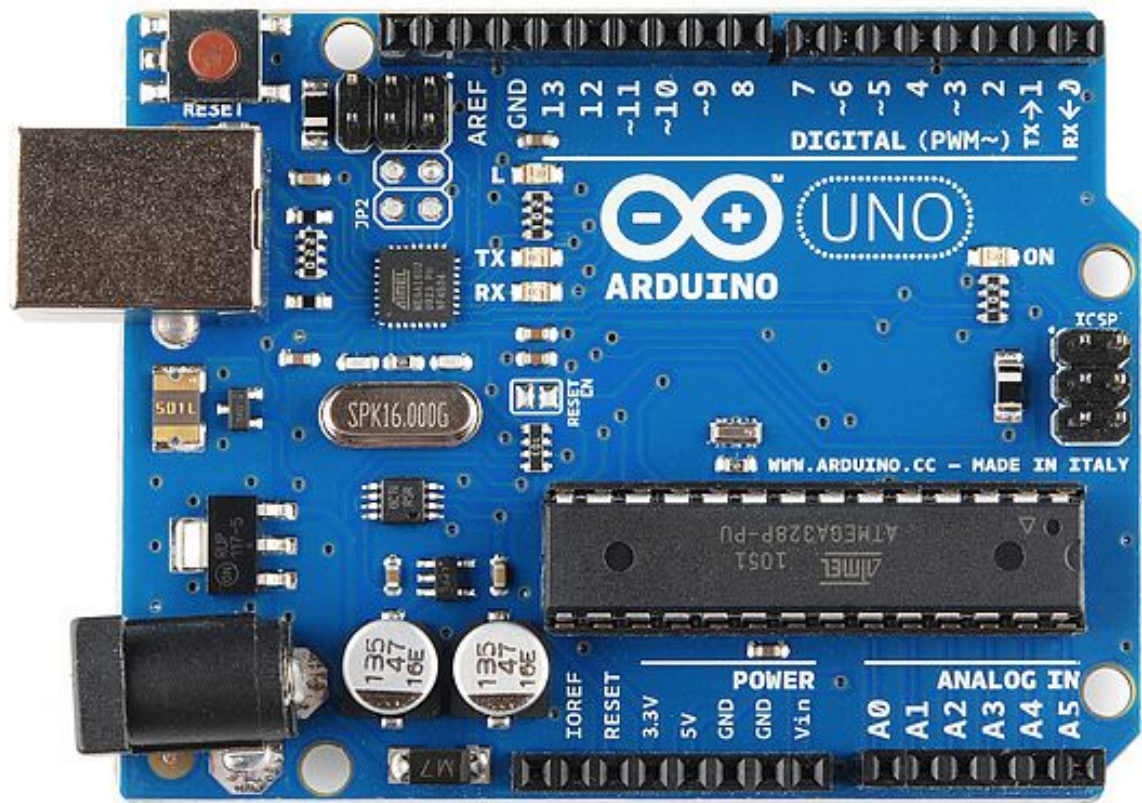


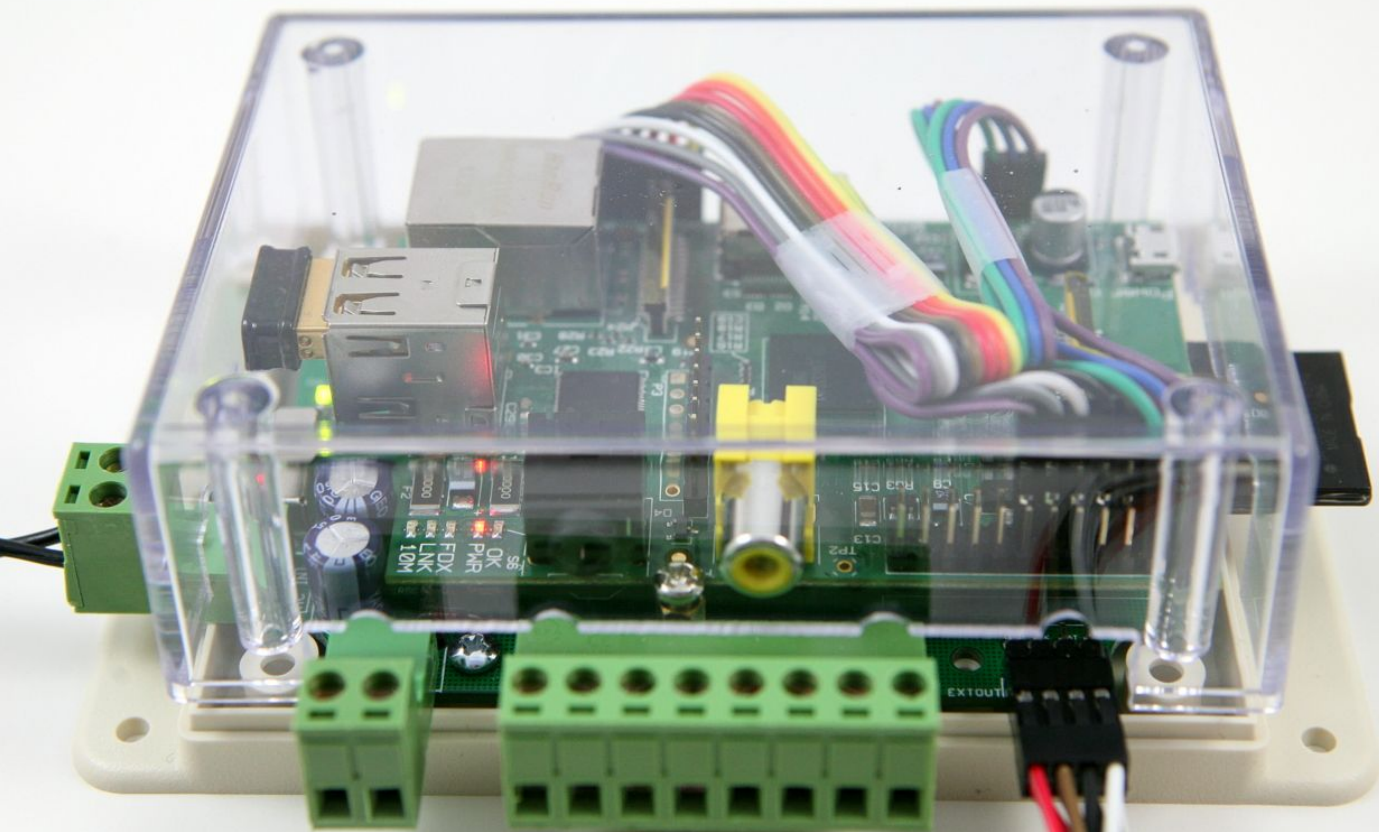
Technologie wird zugänglicher

Arduino, Raspberry Pi & Co

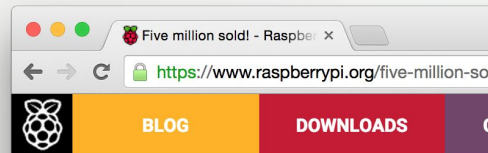
Maker Bewegung







raspberrypi.org, rayshobby.net/opensprinkler

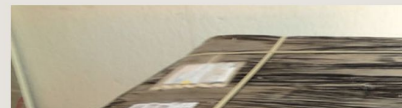


FIVE MILLION SOLD!

Yesterday we received some figures which confirm for a few weeks now: we've sold over five million

The Pi has gone from absolutely nothing just under the fastest-selling British computer. (We still have sales numbers – if you include the [PCW](#) word processor sold 8 million computers between 1984 and 1997

We roll this picture out every time we have a sale. Raspberry Pis we ever had made, around this time the original Raspberry Pis in this pallet. That's 0.04% currently out there. (Every individual Pi in this pallet





Long Range Wide Area Network

Low Power, Low Bandwidth

LoRaWAN, LPWAN



New LoRa™ Alliance To E For The Inter

Industry Leaders Plan LoRa™ Alliance to S
Bi-directional, Battery Friendly, Low-cost, L

San Ramon, Calif., January 6, 2015 - Indus
creating the largest, most powerful cons
the Internet of Things (IoT). An informat
founding members will be held this week
Las Vegas. The LoRa™ Alliance mission is
Networks (LPWAN) being deployed arou
(IoT), machine-to-machine (M2M), smart
members intend to collaborate in order t
protocol (LoRaWAN™) by sharing knowle
interoperability between Telecom operat

The prospective initial Alliance members
Activity, Cisco, Eolane, IBM, Kerlink, IMST,
Microchip Technology, as well as lead tele
SingTel, Proximus, [Swisscom](#), and FastNe
prospective Alliance members are hostin



Unternehmen Medien Investoren Governance Jobs & Karriere Inno

Swisscom baut ein schweizweites Netz für das Internet der Dinge

Bern, 14. März 2016

Das Internet der Dinge verbindet längst M
miteinander und mit Menschen. Künftig v
Swisscom baut als erste Anbieterin schwe
Internet der Dinge, das Low Power Netwo
autonome Übermittlung geringster Daten

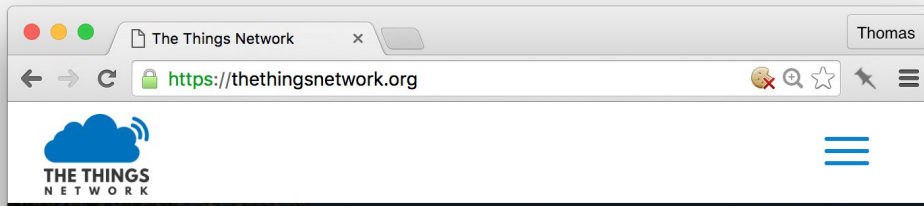
Swisscom baut im Grundausbau bis Ende 2016 s
der Dinge. Das so genannte Low Power Network
damit für intelligente Städte, energieeffiziente C
neue digitale Anwendungen. Es wächst exponen
weltweit Milliarden von Geräten sein, die unter:
— Parkplätze melden ihre Belegung und übermi
— Städte optimieren Sammelrouten nach dem
Kosten und CO₂-Emissionen.
— Der Briefkasten sendet eine Nachricht, sobald
— Heizungszähler senden den aktuellen Bezug
zur exakten Abrechnung.
— Maschinen und Geräte melden anbahnende



Über uns ► ... ► Die Post baut am Internet der Dinge

Die Post baut am Internet der Dinge Mitteilung vom 02.03.2016

In Zukunft werden immer mehr elektronische Geräte
untereinander und mit dem Internet vernetzt sein. Das
sogenannte Internet of Things eröffnet auch in der Logistik
zahlreiche neue Anwendungsmöglichkeiten. Deshalb will die
Post ein auf [LoRaWAN \(Long Range Wide Area Network\)](#)

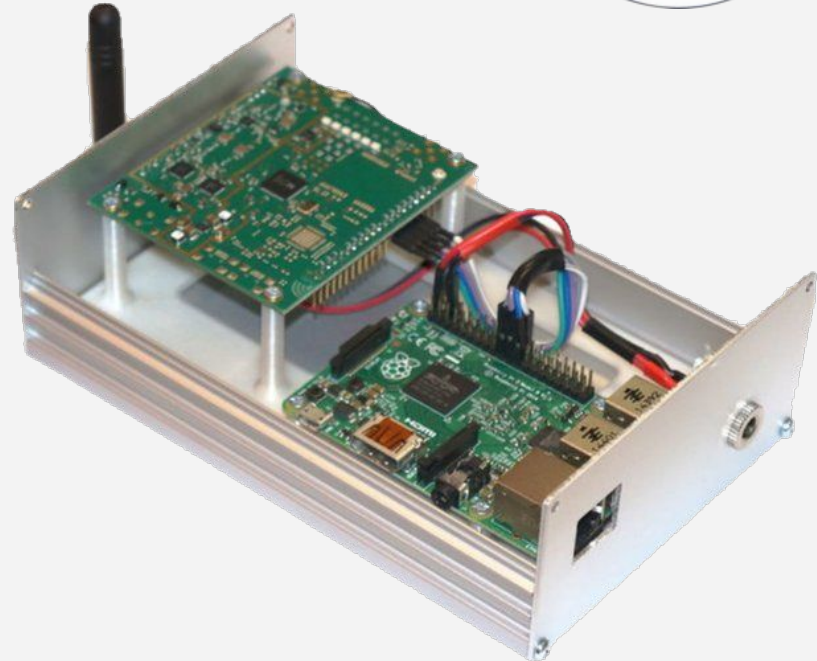


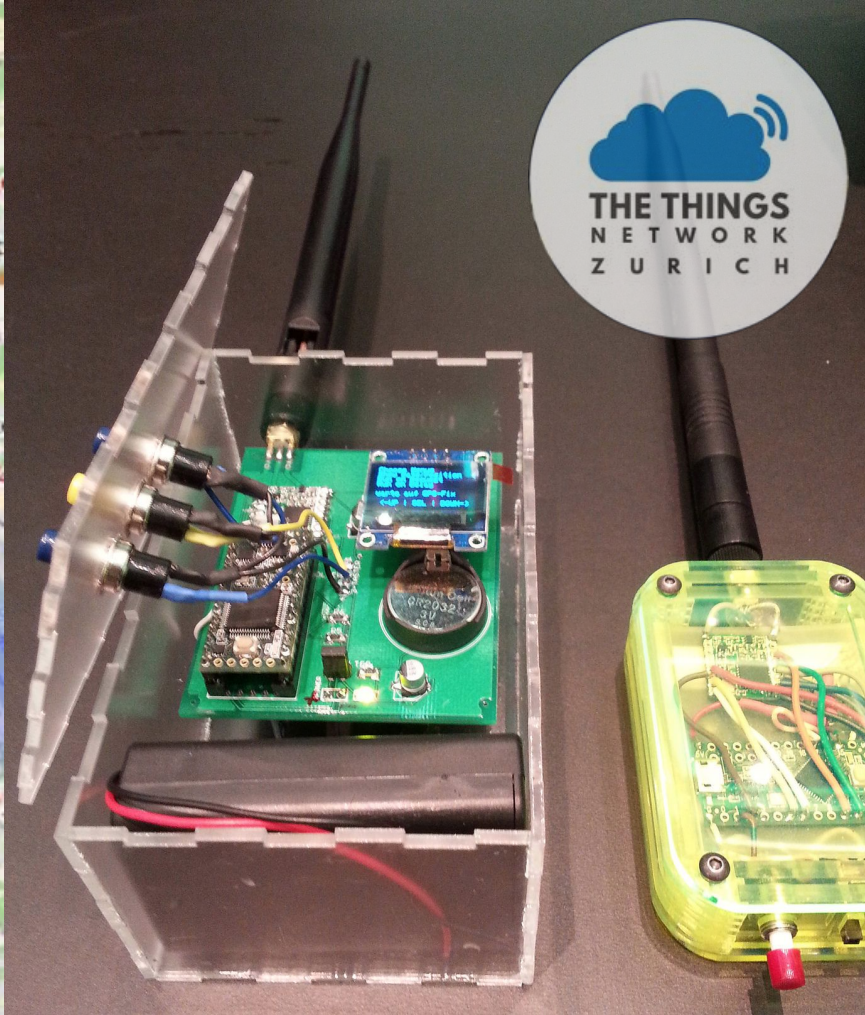
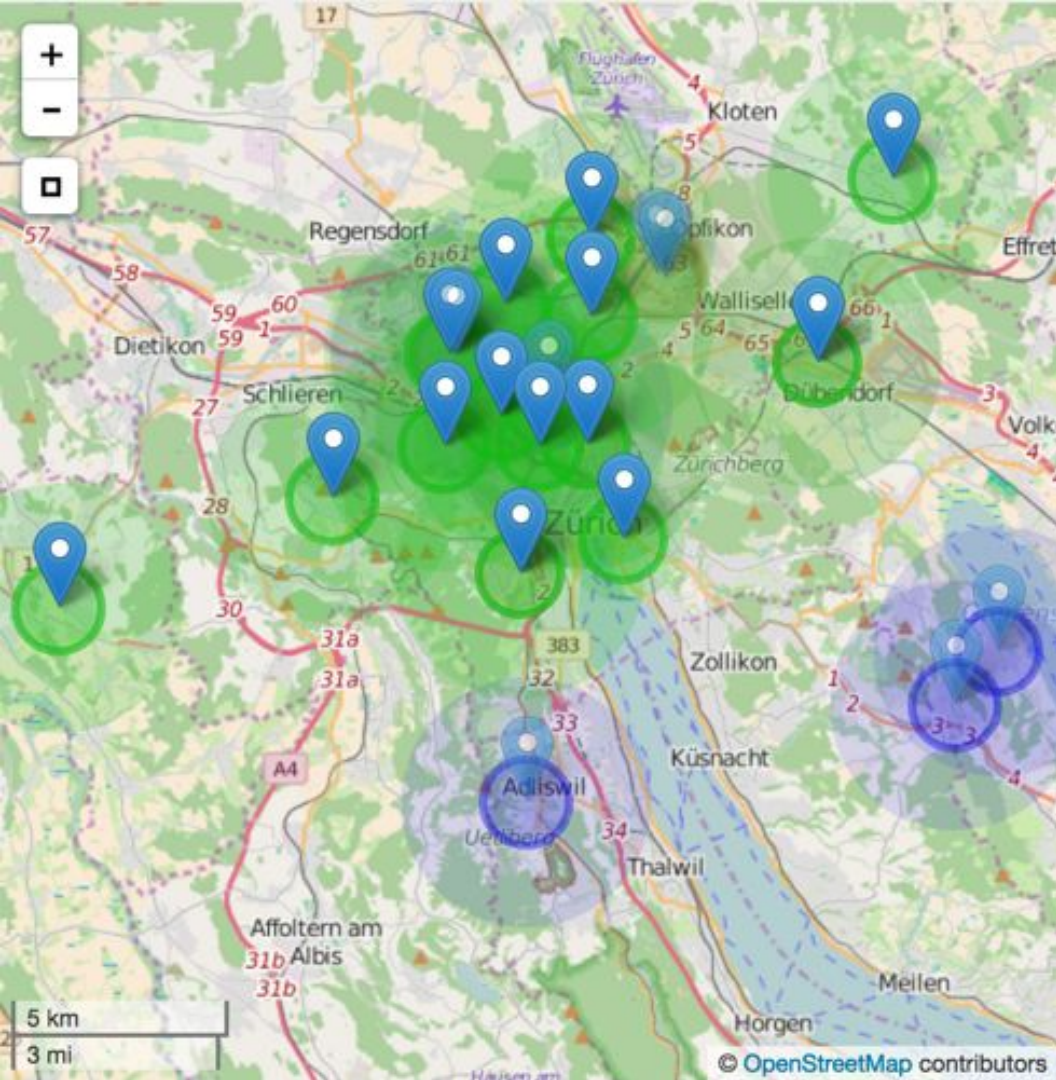
Building the network

With a small group of people it is possible to provide an entire city of data connectivity for things.

In a period of 6 weeks the city-wide coverage of Amsterdam was crowdsourced and implemented.

From day one use cases were built on top of this network. We believe the abundance we are creating will lead to exponential innovation from which we all benefit. Join our global campaign by contributing.





L: @ursmij, R: Funlab.ch, Foto: tamberg.org, CC BY-SA

SERVICES AND SOFTWARE

HOW WE DELIVER OUR LORAWAN SOLUTION



PUBLIC CLOUD

Your Virtual Private LoRaWAN network running in minutes. Ideal as a first step into the technology, short time to market and proof-of-concept projects.

[REGISTER FREE ACCOUNT](#)



SOFTWARE AS A SERVICE

Your very own LoRaWAN network, provided by LORIoT as a managed or unmanaged service. Our pricing scales as you grow the network.

[CONTACT US](#)



SOFTWARE LICENSE

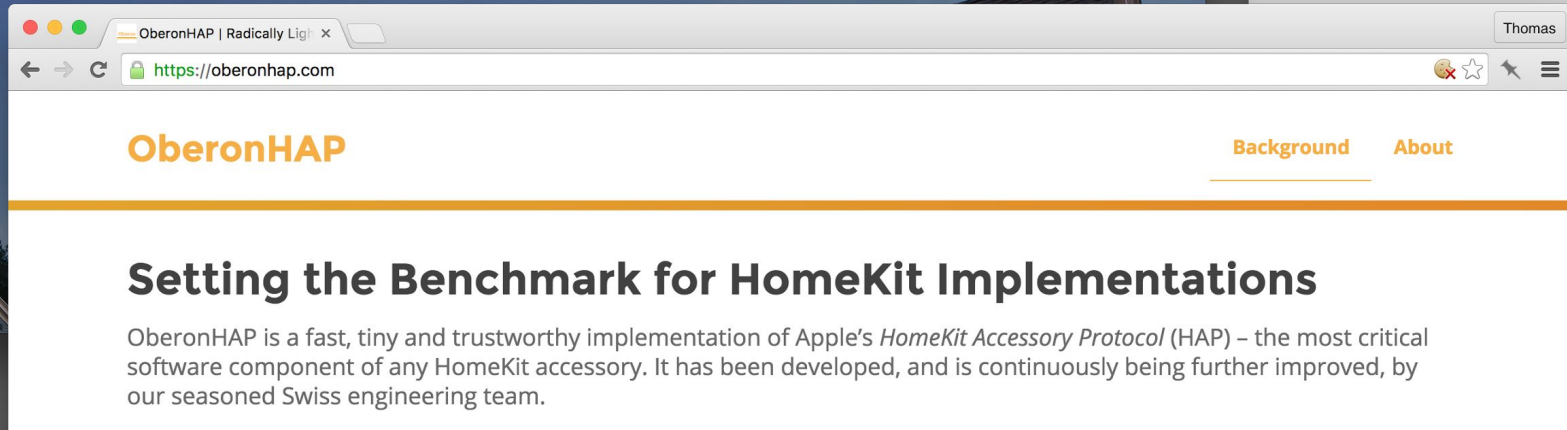
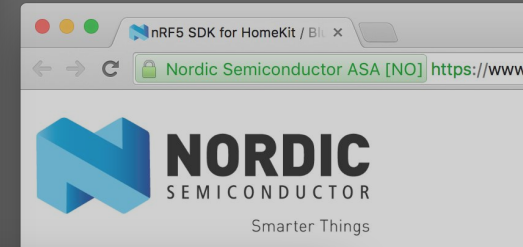
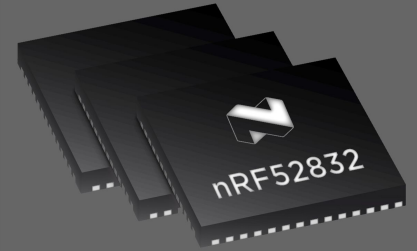
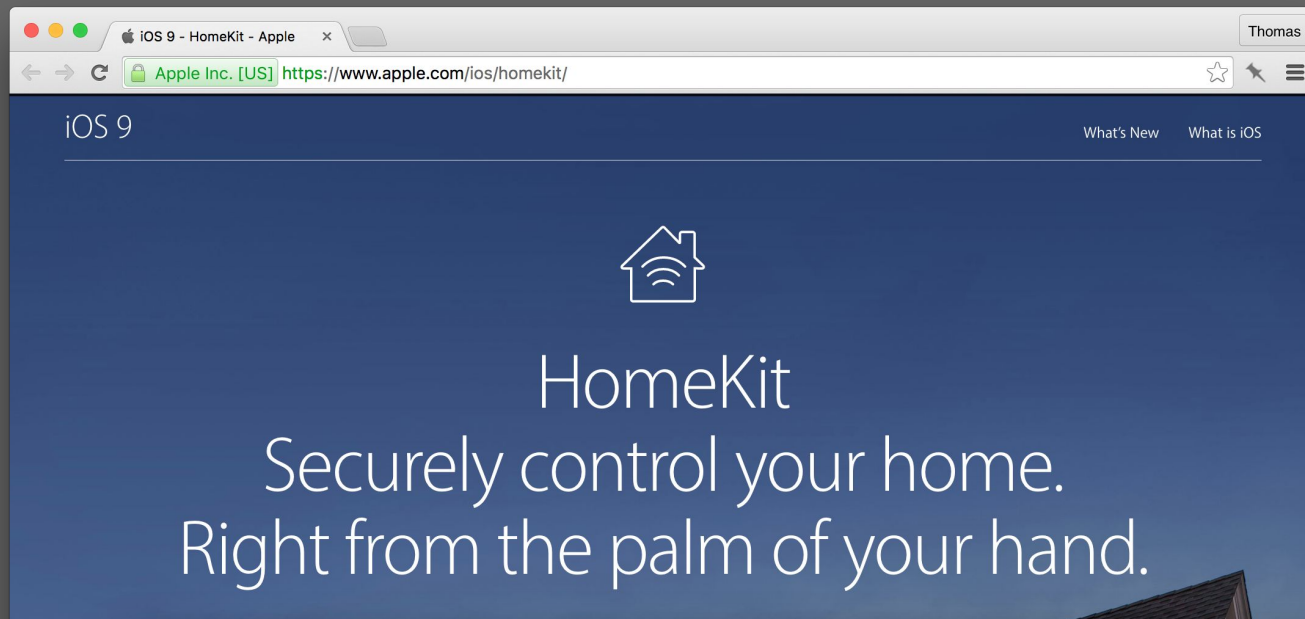
Want to run the network on your own? Fine with us. We can license you our software for your own LoRaWAN network deployment.

[CONTACT US](#)

Solides Engineering

Soft- & Hardware

Sensoren

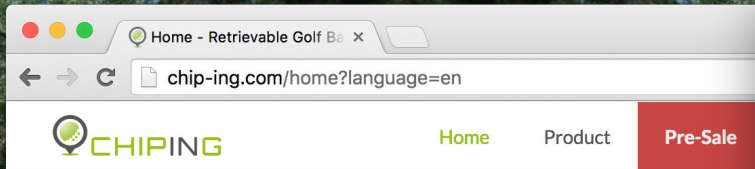


Applications

energy / nRF5 SDK for

SDK for HomeKit
re Development Kit f
it solutions

PTION



The Smart Way to Play

Golf Ball with Bluetooth Trans



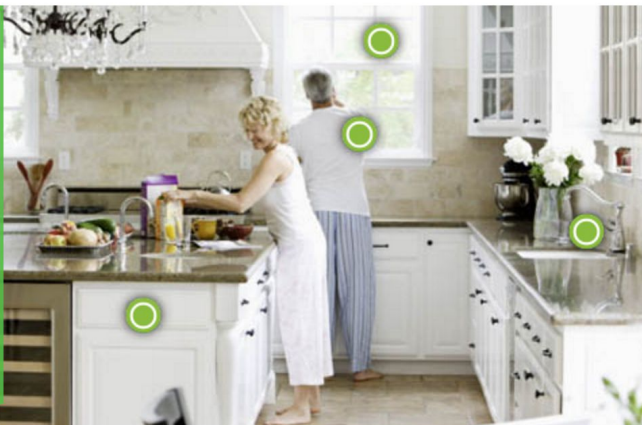
If you're into playing golf, you know how annoying it can be to get stuck on the course trying to find your ball in the rough or in the woods. It is very frustrating, trying to find your ball, losing time, or having to take a penalty shot as a consequence or even walk back to the tee.

That is why we created the **NEVER LOST** golf ball. It's the smartest way to play. With the **NEVER LOST** you'll play faster, score better, and save balls!



**Sensing.
Anytime.
Anywhere.**

Our innovative microsensor solutions are integrated in a wide variety of applications all over the world...



Experts for Smart Sensor Solutions

Sensirion is a leading sensor manufacturer, providing relative humidity sensors and flow sensor solutions with unique performance. Together with our capacitive humidity sensor, the product range includes liquid flow sensors, mass flow meters, mass flow controllers and differential pressure sensors. Using our microsensor solutions, OEM customers benefit from the proven CMOSens® Technology and excellent technical support. Among a large variety of applications, the flow and humidity sensors are successfully used in the automotive and medical industry.

Humidity and Temperature Sensors

Digital humidity and temperature sensor for

Mass Flow Meters for Fluids

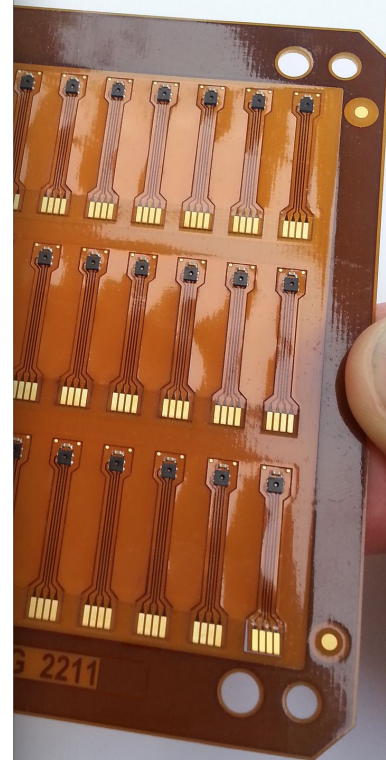
High precision liquid flow meters with

Career Openings

- Senior Key Account Manager
- Accountant / Admin
- Junior Sales Engineer

News

- News





Wo sich die Akteure treffen

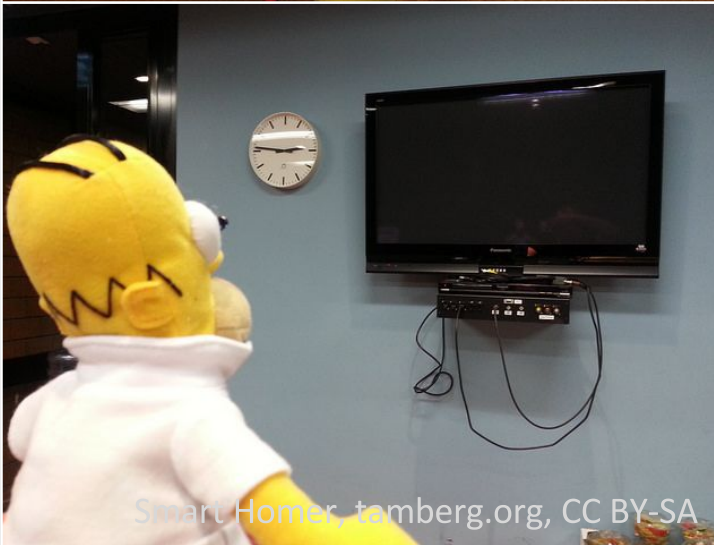
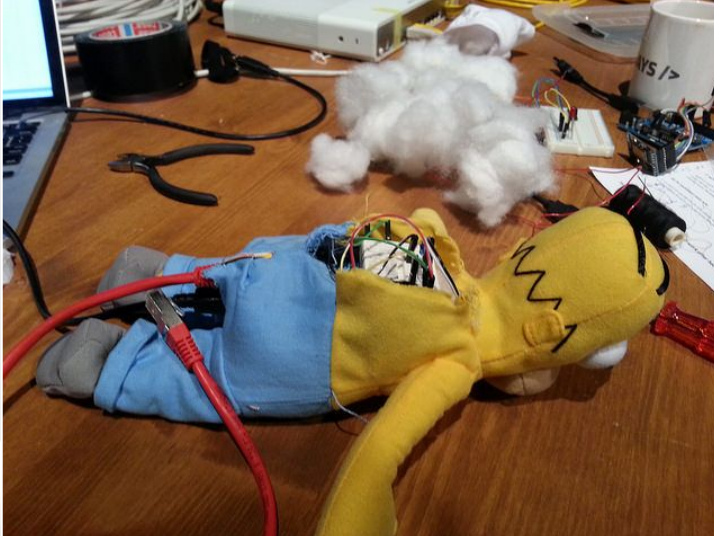
Hackdays, Meetups, Labs

Make, Learn, Share



SRG SSR
<HACKDAYS />
#srghack

SRG SSR
<HACKDAYS />





**IOT/
ZH**

1100 Members

meetup.com/IoT-Zurich, tamberg.org, CC BY-SA



MechArtLab, Boaz Heller, CC BY-SA



mikro-labs.com,
bluekitchen-gmbh.com



tamberg.org, CC BY-SA

Fab Lab Zürich / Winti / Neuchâtel / ...



FABLAB
ZÜRICH

Laser-cut DIY Bio Lab Equipment



Vom Prototyp zum Produkt

Neue Hardware Startups

Made with China

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haxlr8r.com

HAXLR8R


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HAXLR8R is a new kind of accelerator program.

For people who hack hardware and make things.

Join us next July for 111 days in Shenzhen and San Francisco.
We're currently [accepting applications](#), deadline is May 31st!
Now up to 50K funding!

APPLY NOW



The New York Times Bloomberg

FEATURED MENTORS / SCIENTISTS



Sean O'Sullivan

Sean O'Sullivan has been described as an engineer, musician, computer programmer, a humanitarian worker, a war photographer, a cinematographer, stock analyst, freelance photojournalist, a venture...



Mitch Altman

Mitch Altman is a San Francisco-based hacker and inventor, best known for inventing TV-B-Gone remote controls, a keychain that

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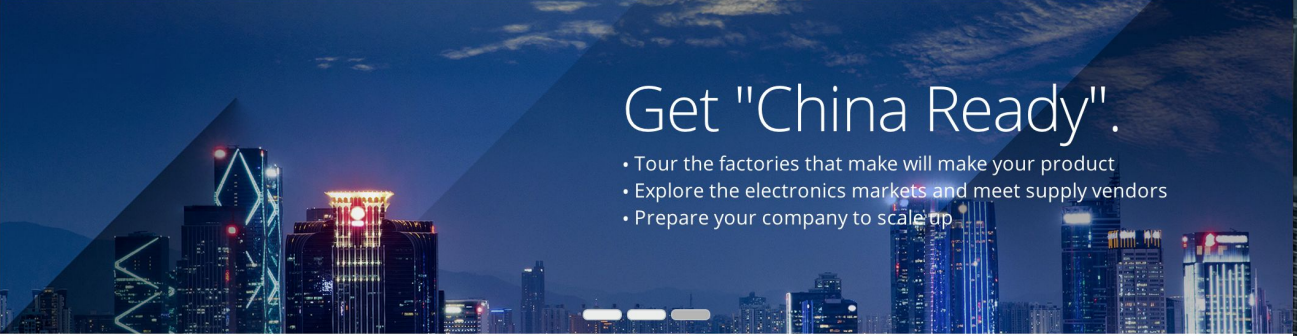
Get updates

Get "China Ready".

- Tour the factories that make will make your product
- Explore the electronics markets and meet supply vendors
- Prepare your company to scale up

You've got a prototype. We've got a roadmap.

Anyone can build a prototype, but manufacturing at scale is a bigger, tougher problem.



KICKSTART ACCELERATOR



Program

Verticals

Mentors

Requirements

Food

Does your business tackle the problem of how can food be exciting, diverse, healthy – and affordable? Kickstart is interested in business ideas for the most radical food

Smart & Connected Machines

Kickstart is looking for the most exciting smart machines, be it in robotics, drone technology, or machine learning/AI.

We are especially

Future & Emerging Technologies

Future & Emerging Technologies go beyond what is known. Visionary ideas can open up promising avenues towards powerful new technologies

FinTech

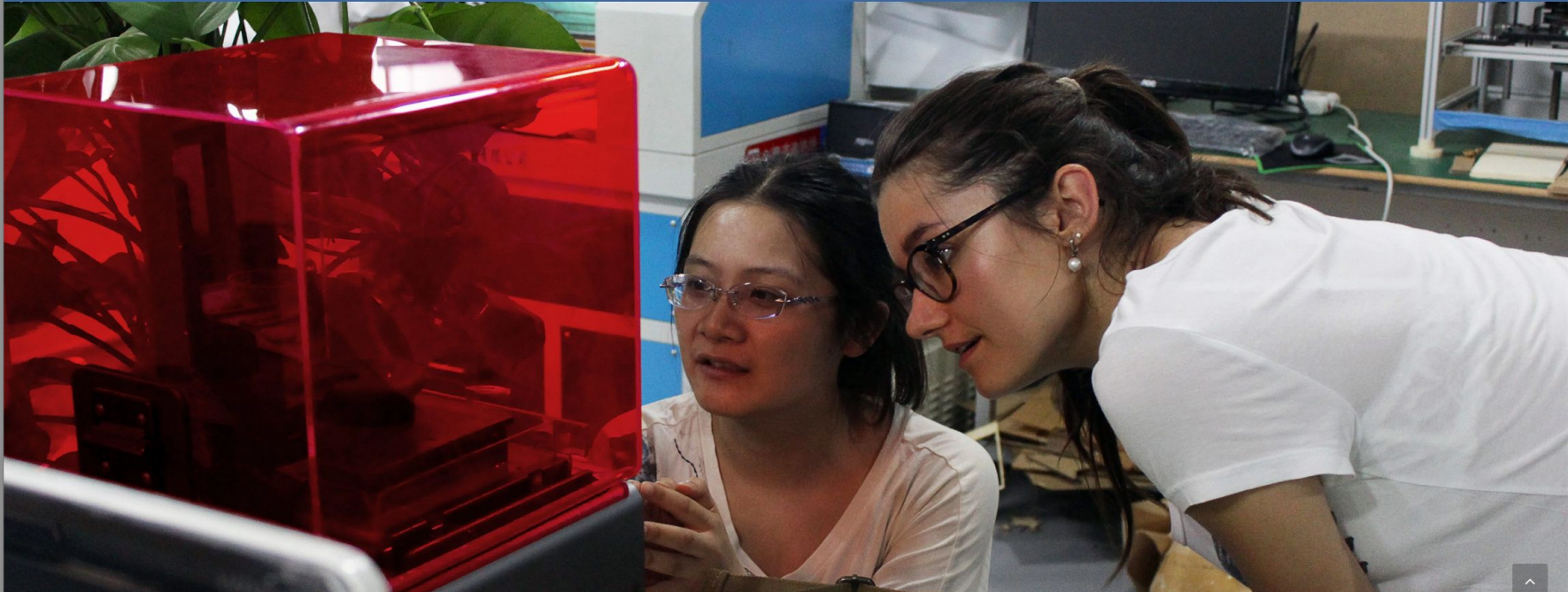
With Zurich as a global financial centre, Switzerland is well positioned to play an important role within the FinTech industry. Kickstart will focus specifically on



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...TEAMS OF STUDENTS WITH BUSINESS, DESIGN AND ENGINEERING BACKGROUNDS...

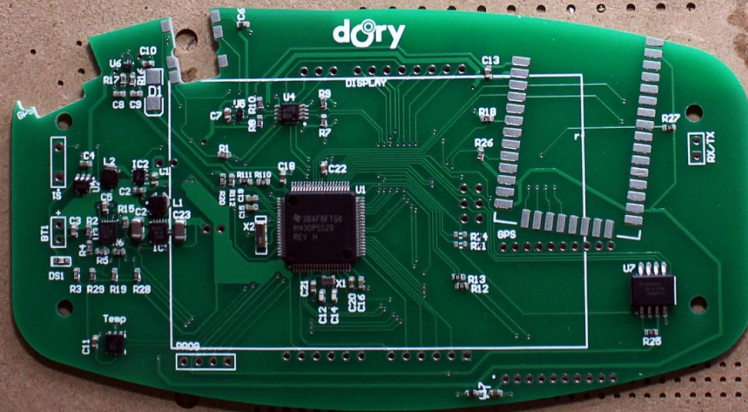




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...WHO TRANSFORM IDEAS INTO PRODUCTS...





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AND TRAVEL TO CHINA ★ FOR 2 WEEKS TO MANUFACTURE THEM.





Bazaar

Recipe

Fusion

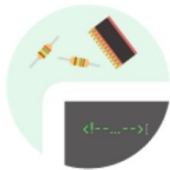
Propagate

Blog

Wiki

Propagate 1~10K

Seed propagate service is a turn-key service to facilitate makers from an idea to mass production. We provides service like prototyping, ODM, OEM, distribution to drop shipping.



Codesign & Prototype

ODM/ Prototyping /Open Parts Library recommendation



New product integration

Design for manufacture/Engineering introduction/Testing developing and introduction



Agile manufacture

Sourcing/OPL/Project management/Quality control



Maker-Friendly Supply chain

Sales on Bazaar/Banner promotion / Distributor/Drop shipping



[KADDZ](#)

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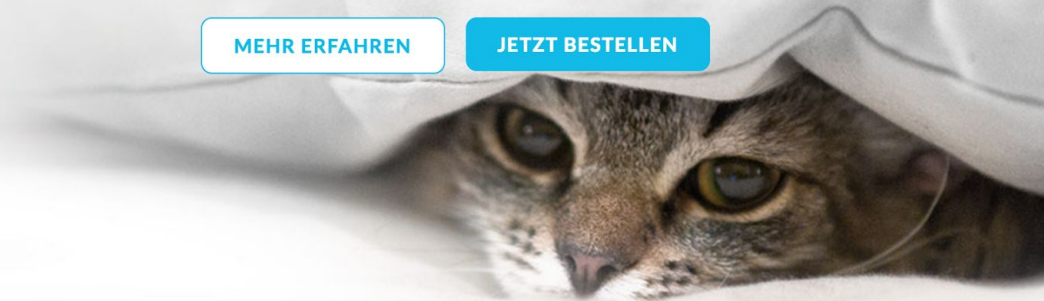


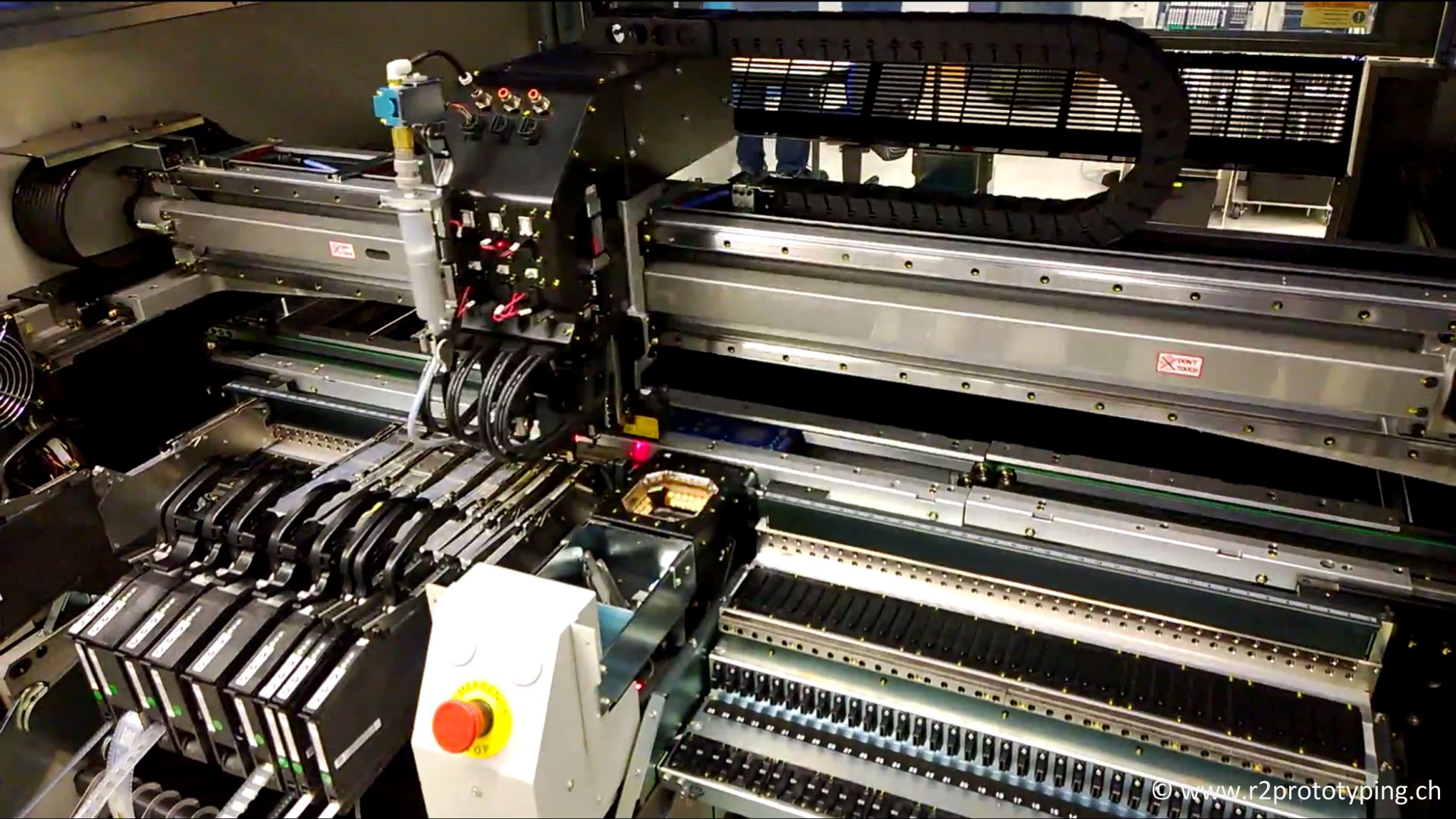
KADDZ – das smarte GPS Halsband für Katzen

Katzen sind neugierig und lieben ihre Freiheit. Dank dem KADDZ GPS Tracker-Halsband kann Ihre Katze gut geschützt auf Entdeckertour gehen ohne dass Sie sich Sorgen machen müssen.

[MEHR ERFAHREN](#)

[JETZT BESTELLEN](#)





IoT Cloud Services

Industrie 4.0

Zukunft



The VerneMQ Mission

The most scalable and robust MQTT Message Broker for IoT, M2M, Mobile, and Web Applications.



What is VerneMQ

VerneMQ is a high-performance, distributed MQTT message broker. It scales horizontally and vertically on commodity hardware to support a high number of concurrent publishers and consumers while maintaining low latency and fault tolerance. VerneMQ is the reliable message hub for your IoT platform or smart products.

What is MQTT

MQTT is an open industry standard (developed by OASIS), specifying a light weight publish-subscribe messaging protocol. It is perfect for large-scale Internet of Things applications and high performance mobile messaging.

The MQTT primer gives a simple and

Yaler.net

Status

Docs & Help

Pricing & Sign up

Log in

Access devices from the Web

Yaler is a relay infrastructure for secure access to embedded systems

Get Started with Yaler

Trusted by makers, small business and enterprise customers

SIEMENS

PHONAK

decentlab

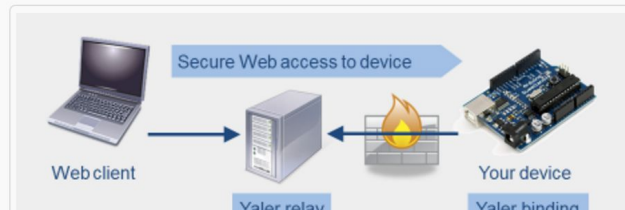
ZAAK
ZURICH

Why Yaler? (relay spelled backwards)

Connectivity as a service

Get secure Web and SSH access to your embedded systems, no matter if they're located behind a firewall, a NAT or a mobile network router. Pay-per-use, with premium enterprise support.

How it works



WAS IST INDUSTRIE 4.0

Industrie 4.0 bezeichnet ein Konzept, das auf der Grundlage der Digitalisierung und Vernetzung der Wertschöpfungsflüsse eine Transformation der Industrie ausgelöst hat. Die 4 deutet dabei die vierte industrielle Revolution an.

WAS BRINGT INDUSTRIE 4.0?

Industrie 4.0 erhöht die Produktivität, Flexibilität und Agilität als Antwort auf steigenden Wettbewerb und erhöhte Kundenanforderung. Industrie 4.0 ist zudem Innovationstreiber und unterstützt eine ressourcenschonende Fertigung.



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AUTONOMOUS MOBILITY ▾

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CLOUD INTELLIGENCE FOR DRIVERLESS VEHICLES

WE ALLOW SEVERAL VEHICLES TO WORK TOGETHER



PLANNING &
SIMULATION



REAL-TIME
OPERATIONS



ON - DEMAND
SERVICES



REPORTING &
ANALYTICS





Koubachi will retire

After the acquisition by Husqvarna Group and the availability of the GARDENA smart system, Koubachi discontinues selling own products. The Koubachi servers will go through a sunset period of 3 years. You have our guarantee that we will not shutdown our systems before end of 2018.

A journey ends and a new one begins

After being [acquired by the Husqvarna Group](#), Koubachi is now part of the [GARDENA smart system](#) team. Koubachi will continue to innovate and shape the gardening of the future.

The last six years have been the ride of our lives. We love doing what we do and are very happy to now be part of the Husqvarna family. I'm looking forward to bringing our excitement for excellent smart products to GARDENA customers world wide.

— Dr. Philipp Bolliger, CEO & Co-Founder



Continued Support & 3-year Sunset Period

Koubachi will be offering support until the end of the sunset period. If you have purchased a product you can contact our support at support@koubachi.com or via our [support portal](#). The Koubachi Server will be operated until the end of the sunset period and then will be shutdown permanently.

Danke.

thomas.amberg@yaler.net

twitter.com/tamberg

www.yaler.net