imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Development Boards

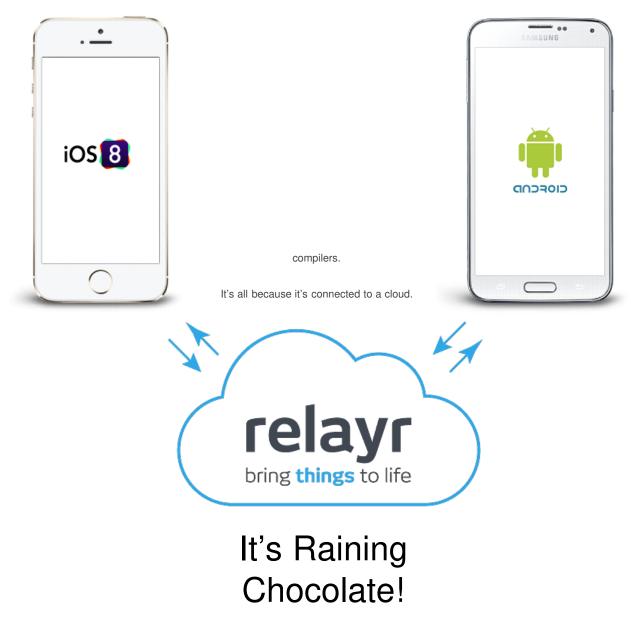


A World Beyond Your Smartphone

Imagine if you could take apart a smartphone and pull out all the hardware that makes it smart, then snap off a single sensor and stick it to a wall or wherever, as simply as you would cut & paste blocks of working code in a text editor?

That's the essence of the WunderBar.

You have access to all the data from these sensors and modules, without having to learn about hardware. No wires no soldering no nothing. You can develop Android or iOS Internet Of Things apps just like you're used to, in Xcode, Android SDK or any text editor with command-line



Sensor readings are instantly sent to the Relayr Cloud which stores them into your secure personal account. The cloud hosts iOS, Android and node.js SDKs, APIs, frameworks and libraries that allow you to read all the data from the sensors so you can easily access them and process them from within your app.

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Main Module





IR Transmitter

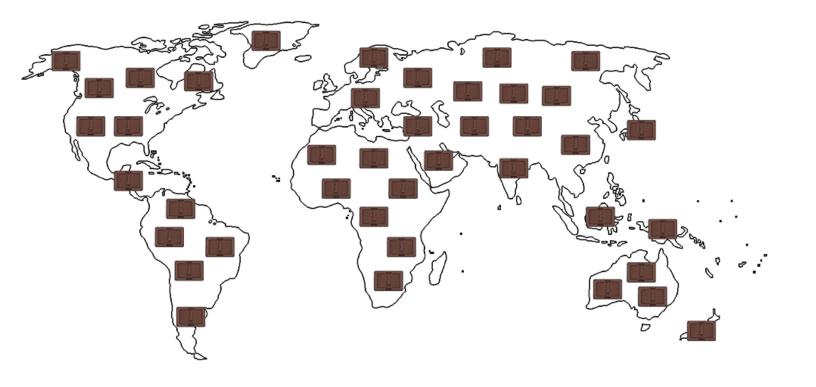






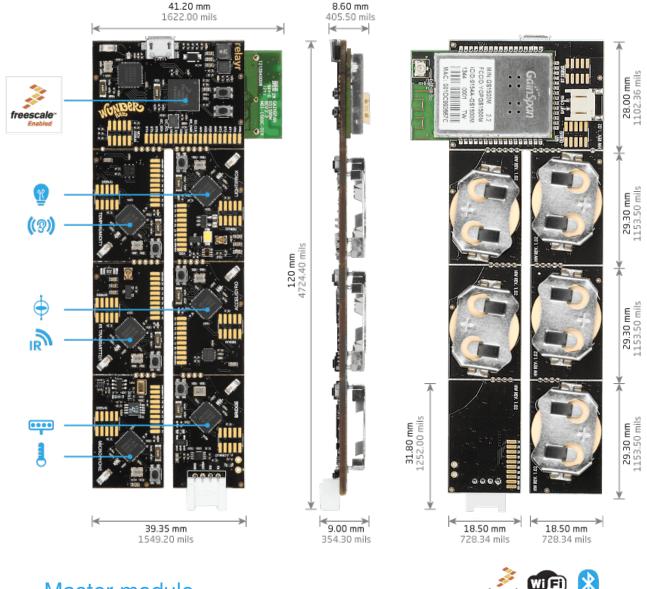
Tastes Better When You Share It

The temperature sensor is publicly accessible right out of the box. Over time, every developer will be able to tap in to a world wide network of WunderBar sensors, giving you a wealth of data you can put into use in your Internet of Things apps.



Tech specs

The WunderBar is delivered as a single block of PCB. The modules are separated with V-cut inscisions. You can snap each of them off if needed. Put a battery into a socket on the backside of each sensor and plug in the USB power supply to the main module. They will start communicating right away through Bluetooth Low Energy (BLE).



Master module

- Main MCU: Freescale MK24FN1M0VDC12, Kinetis-K 32-bit ARM® Cortex™-M4 core with DSP instructions

- Clock Speed: 120MHz
- Flash: 1024 KB
- SRAM: 250 KB
- Gainspan GS1500M WiFi module: IEEE 802.11b/g/n, WPA/WPA2, full TCP/IP stack including SSL/TLS
- Nordic nRF51822 BLE (ARM® Cortex™-M0, Bluetooth 4.0 stack)
- IO: 12 exposed GPIO pads, including 4 ADC, SPI, I2C and SDIO
- 3.3V regulator including Li-Ion/Li-Po charger
- Full-speed USB w/OTG controller
- 32 kHz Xtal oscillator for RTC

Sensor modules



- SoC: Nordic nRF51822 BLE (ARM® Cortex™-M0, Bluetooth 4.0 stack)
 - Clock Speed: 16MHz
 - RAM: 16 KB
 - Flash: 256 KB
- IO: 8 exposed GPIO pads, including SPI, I2C, TWI, UART, ADC
- 32 kHz Xtal oscillator
- One of the following sensors:



Temp / Humidity

Features HTU21D, a low power digital sensor of relative humidity and temperature.



Accel & Gyro

Features MPU-6500 six-axis (gyro + accelerometer) MEMS MotionTracking[™] device.



Light / Proximity

RGB color sensing and proximity



IR Transmitter

Features SFH4441 high power infrared emitter, 950 nm, special package, half angle ±17°

((?))

Microphone

detector.

Features SPQ0410HR5H-B, a miniature, high-performance, low power silicon microphone.



Bridge

Features 4-pin connector compatible with Grove add-on boards and sensors.

MikroElektronika's top-notch production fascility

The Chocolate Factory

Like master craftsmen making the finest chocolate available, our reputation ensures that the WunderBar will be made to the highest standards of quality. MikroElektronika has over a decade of experience in building a wide range of Embedded development tools. Amongs others we're favored by professional engineers and university professors around the world.





What you get



Package dimensions: L 215mm, W 145mm, H 40mm



Package weight: ~400g



Order Now

Try the WunderBar and watch how yesterday's limits of App development for iOS and Android devices start melting away like a piece of chocolate on your tongue, releasing an abundance of new possibilities that will amaze and excite you. You'll be like a wide eyed kid tasting chocolate for the first time!

MIKROE- WunderBar - IoT Starter Kit

MikroElektronika Embedded Solutions

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