

aira



WCA Wireless Power Transfer 2021

March 25, 2021

airapower.com



Aira, Inc.

WCA
Wireless Power Transfer 2021

Our Mission:

To pioneer the most advanced wireless charging experiences.



Our Technology



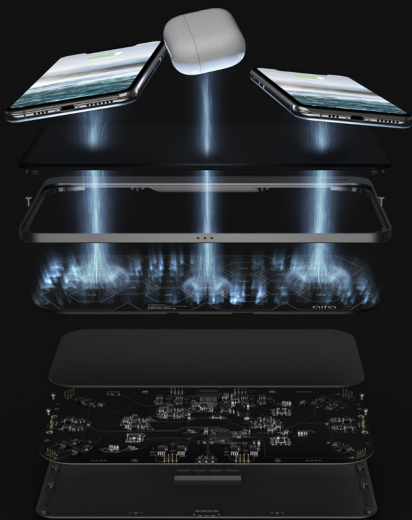
Full-Surface Wireless Charger
Enabling free-position, multi-device charging, making the entire surface active so devices placed anywhere charge.

80

Patent Assets
Filed



Customer
Ratings



Ground-Up Engineering
Advanced magnetics, hardware, and software design, built in-house, to deliver the best wireless charging experiences.



Never See
This Again

Aira Awards



TOP 10

An isometric illustration of a multi-layered circuit board or charging pad, showing various components and connection points.

CONSUMER ELECTRONICS

MOST INNOVATIVE COMPANIES 2021

01	Corning	For addressing more of our fumbled-phone anxieties
02	Apple	For always staying a step ahead
03	Rasberry Pi	For a better DIY computer platform
04	Samsung	For thinking different about phones
05	Aira	For fixing wireless charging's biggest annoyance
06	Tempo	For bringing weight training home in a private way
07	AMD	For giving the laptop market some competition
08	Google	For rethinking how streaming TV should work
09	Wyze Labs	For making smart gadgets more affordable
10	Popsockets	For turning a hit accessory into an ecosystem

aira

05

Most wireless charging stations have one issue in common: You have to place your phone precisely over the spot where the charging coil lies, otherwise it might charge poorly—or not at all. Aira has solved the problem with its FreePower tech, which uses an array of coils and intelligent software to direct power toward the spot where a device is sitting. This allows Aira to charge multiple gadgets at the same time, no matter how they're positioned. While Aira has partnered with the gadget brand Nomad to sell a charger directly to consumers, it's also working with equipment manufacturers to build the tech into cars, desks, nightstands, cafe countertops, and beyond. (Mother's, a major automotive supplier, recently became a strategic investor.) The result could be ubiquitous wireless charging that works the way it was always supposed to.

An illustration showing a cross-section of the Aira FreePower technology, highlighting the array of coils and the intelligent software that directs power to the device.

CES INNOVATION AWARDS 2021 HONOREE

CES INNOVATION AWARDS 2021 HONOREE

CES Innovation Awards

- Embedded Technologies
- Mobile Devices & Accessories

AMERICA'S MOST MANIPULATIVE BILLIONAIRE
THE BOARDROOM BUYS INTO BITCOIN

SPECIAL ISSUE

THE \$12 BILLION COLLEGE CHEATING FACTORY
FROM CANDY TO CANNABIS

Forbes

NEXT 1000

THE UPSTART ENTREPRENEURS REDEFINING THE AMERICAN DREAM

Forbes
NEXT 1000
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ELISABETH BRIER

America is rich in small businesses. These enterprises account for over 30 million U.S. businesses and some two-thirds of net new jobs. While venture-backed startups generally skew white, male and coastal, these Main Street companies actually look like—and drive—America.

To shine a light on these entrepreneurial heroes, Forbes has created the Next 1000. This year-round initiative showcases the ambitious sole proprietors, self-funded shops and pre-revenue startups in every region of the country—all with under \$10 million in revenue or funding and infinite drive and hustle. Fueled by your nominations and screened by top business minds and entrepreneurial superstars, these new faces will number 1,000 by year's end. Let's get started with the first class of 250 standouts.

A portrait of Jake Slatnick, a man with dark hair, wearing a dark shirt.

Jake Slatnick

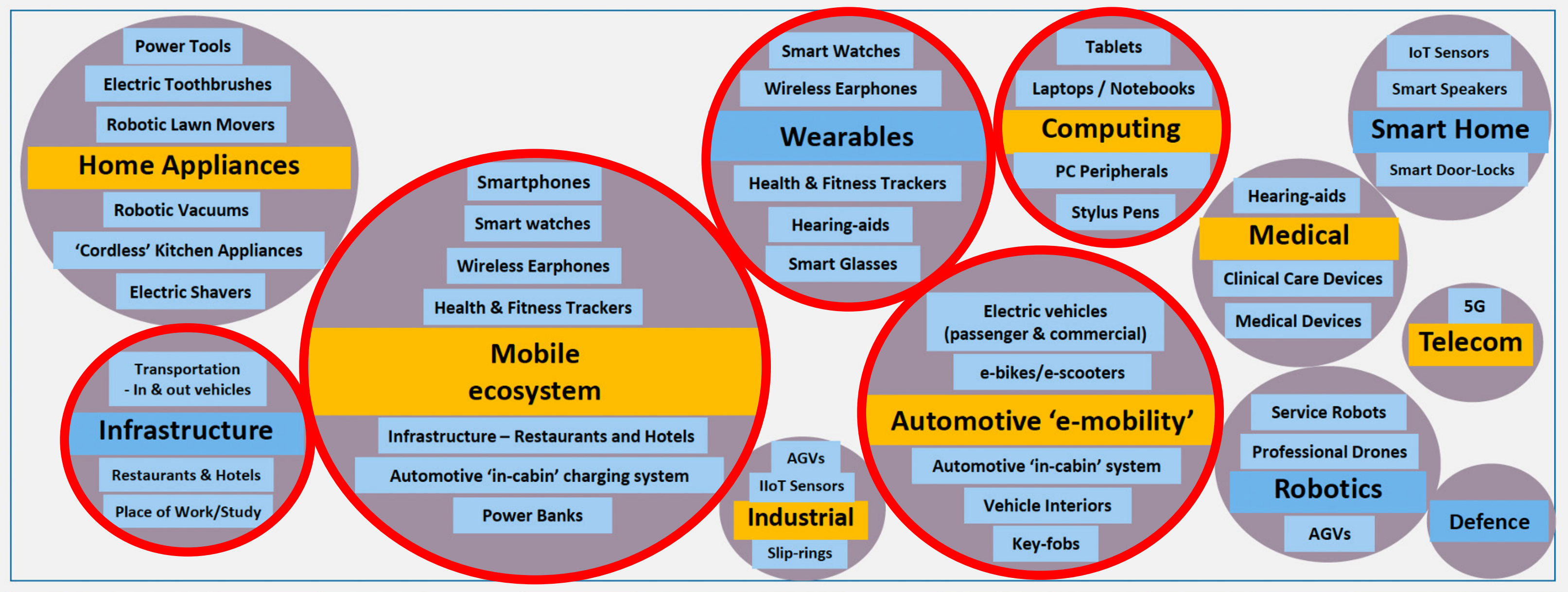
Co-Founder, Aira

Two years after graduating from Arizona State University's entrepreneurship program in 2015, Slatnick and his business partner Eric Goodchild launched Aira, a startup dedicated to free position wireless charging technology. The two would burst into the mainstream two years later, when their appearance on Shark Tank garnered them \$900,000 in venture investment. Now Aira has a growing number of partners in the consumer electronics and automotive industries.

FEBRUARY/MARCH 2021

Our Segments

Data source:
Wired & Wireless Technologies (WAWT)



Imagine a desk that powers everything.

Experience it: airapower.com/vision



Convenient charging in common areas.

Experience it: airapower.com/vision



The ultimate convenience in your home.

Experience it: airapower.com/vision



A car with more intelligent surfaces.

Experience it: airapower.com/vision



Wireless power in vehicles has been broken for a decade.



Legacy Wireless Chargers

- Require precise alignment
- Single device charging per socket
- Fixed power profile and device support
- Limited device size flexibility
- Constrained design and packaging freedom
- Poor forward-compatibility
- Often exhibits EMC and key fob issues.



FreePower Wireless Chargers

- Allows full freedom of placement and movement of devices
- Fast and accurate device detection and localization
- Multi-device charger (earbuds, phones, and accessories)
- Thin profile and design flexibility supports diverse packaging
- Forward-compatible to support new phones and accessories
- Firmware upgradeable to accept new protocols and devices
- Improved EMC performance and avoids key fob interference
- Unconstrained OEM industrial design.

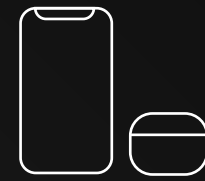
How FreePower Compares

Features	FreePower	Traditional Qi	Over-the-Air <small>*RF, Ultrasonic, LASER</small>
Freedom of Placement	●	●	●
Intelligent Charging Management	●	●	●
Highly Customizable OEM Design Flexibility	●	●	●
Firmware Upgradeable Future-Proof	●	●	●
Thermally Efficient	●	●	●
Efficient Power Transfer	●	●	●
Scalable Manufacturing	●	●	●
Low Cost	●	●	●
Globally Compatible	●	●	●
Regulatory Standards Compliant	●	●	●

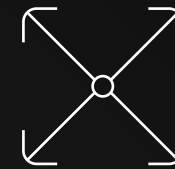
FreePower's Features



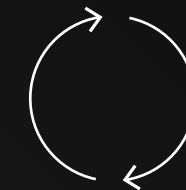
Custom Controller
Proprietary firmware
engineered in-house



Multi Device Charging
Convenience to charge
everything together



Full Surface Freedom
Devices placed across
the surface will charge



Global Compatibility
Safely operating under
the Qi Standard guidelines



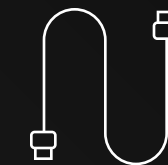
Unique Topology
Ground up design to
optimize performance



Precision Power
For efficiency across
the entire surface



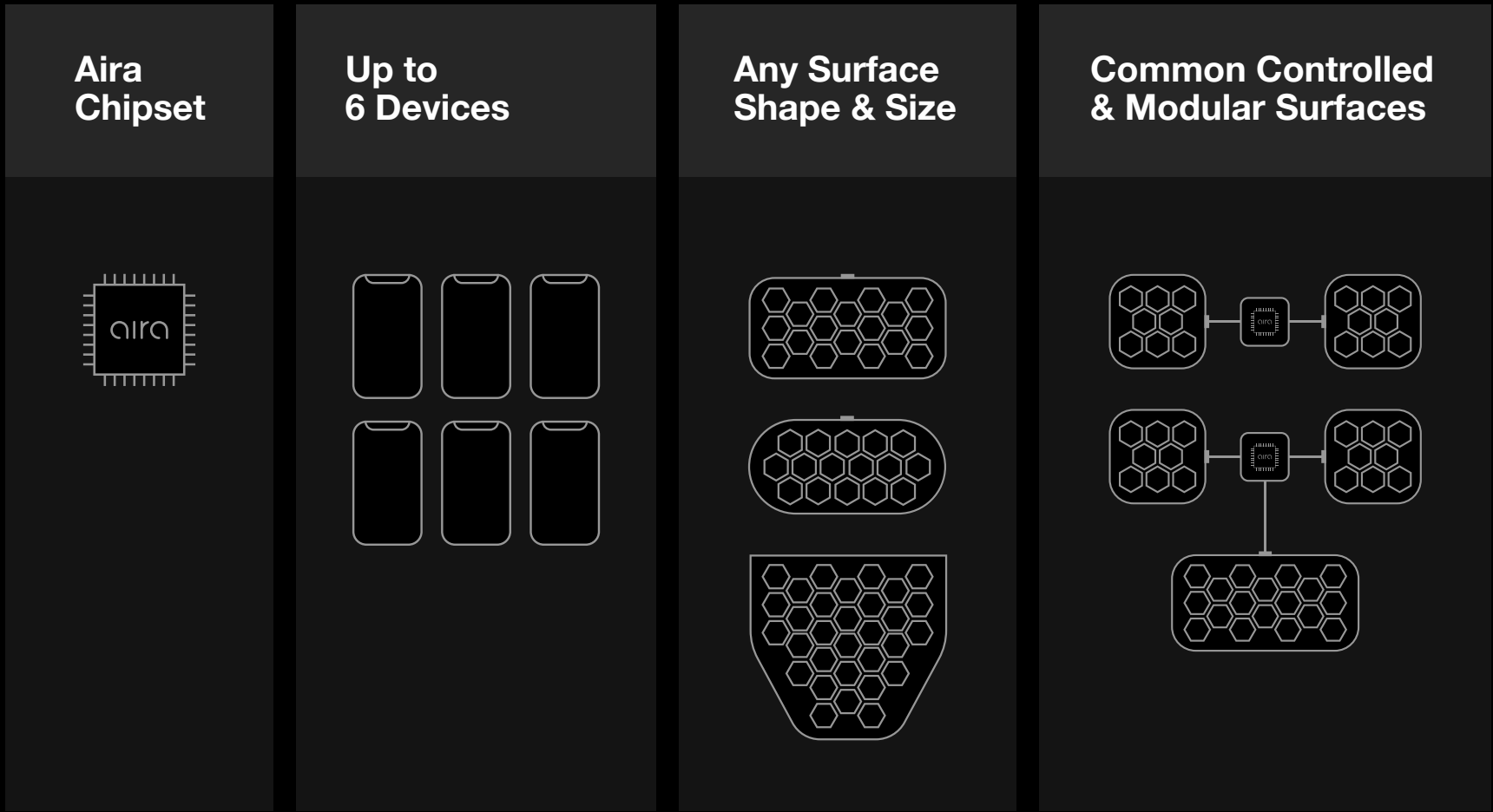
Advanced Thermal
Intelligent monitoring
with dynamic cooling



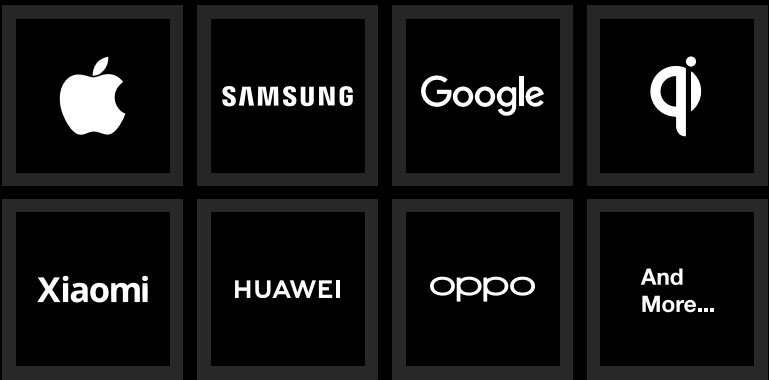
Firmware Updateable
Future proof and improve
embedded hardware

Scalable, Tailored, & Compatible

Modularity that offers first-of-its-kind design freedom:



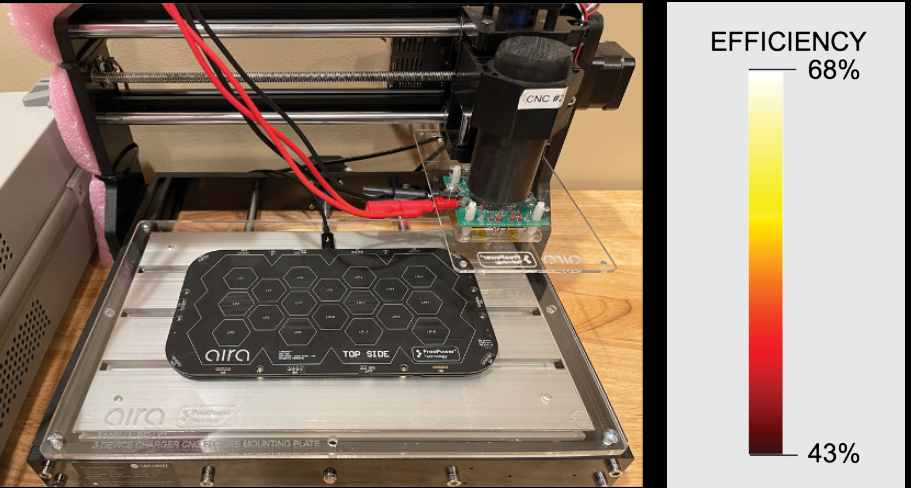
All major protocols:



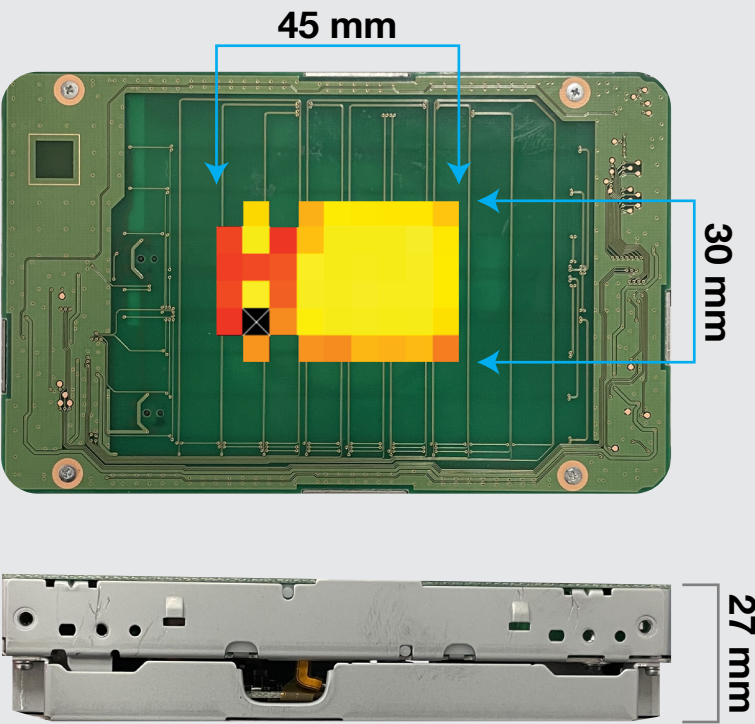
OEMs all have the same issues:

- EMC
- Efficiency
- Foreign Object Detection (FOD)
- Key Fob Interference
- The Need for a Universal Solution
- The Need for Multi-Device Charging

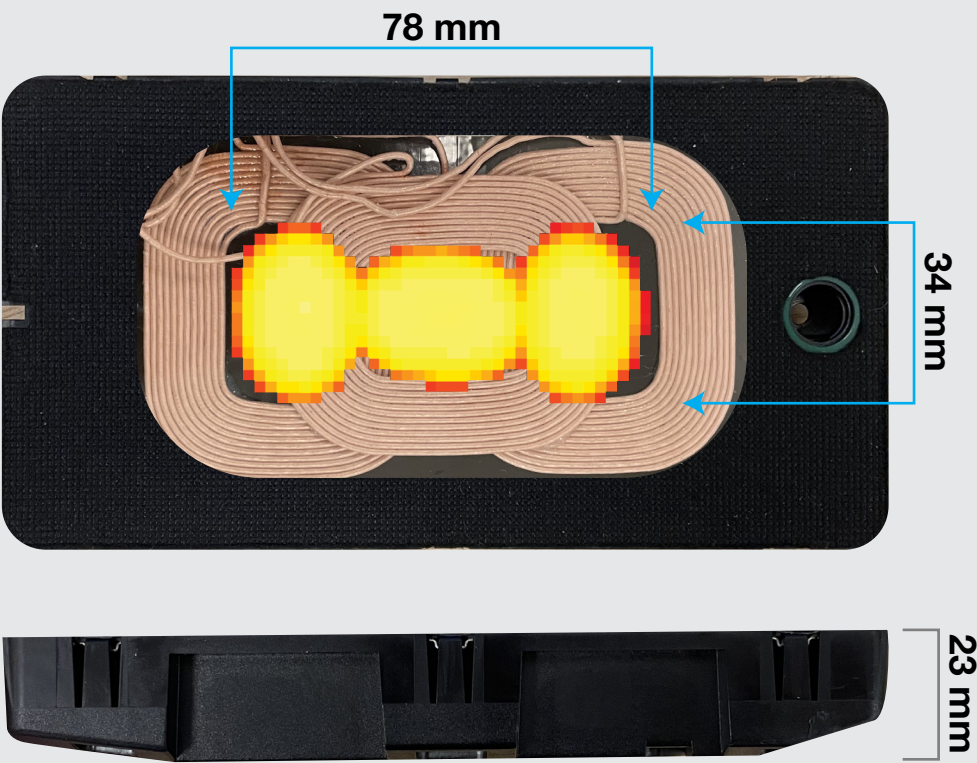
Active Area Map Comparison



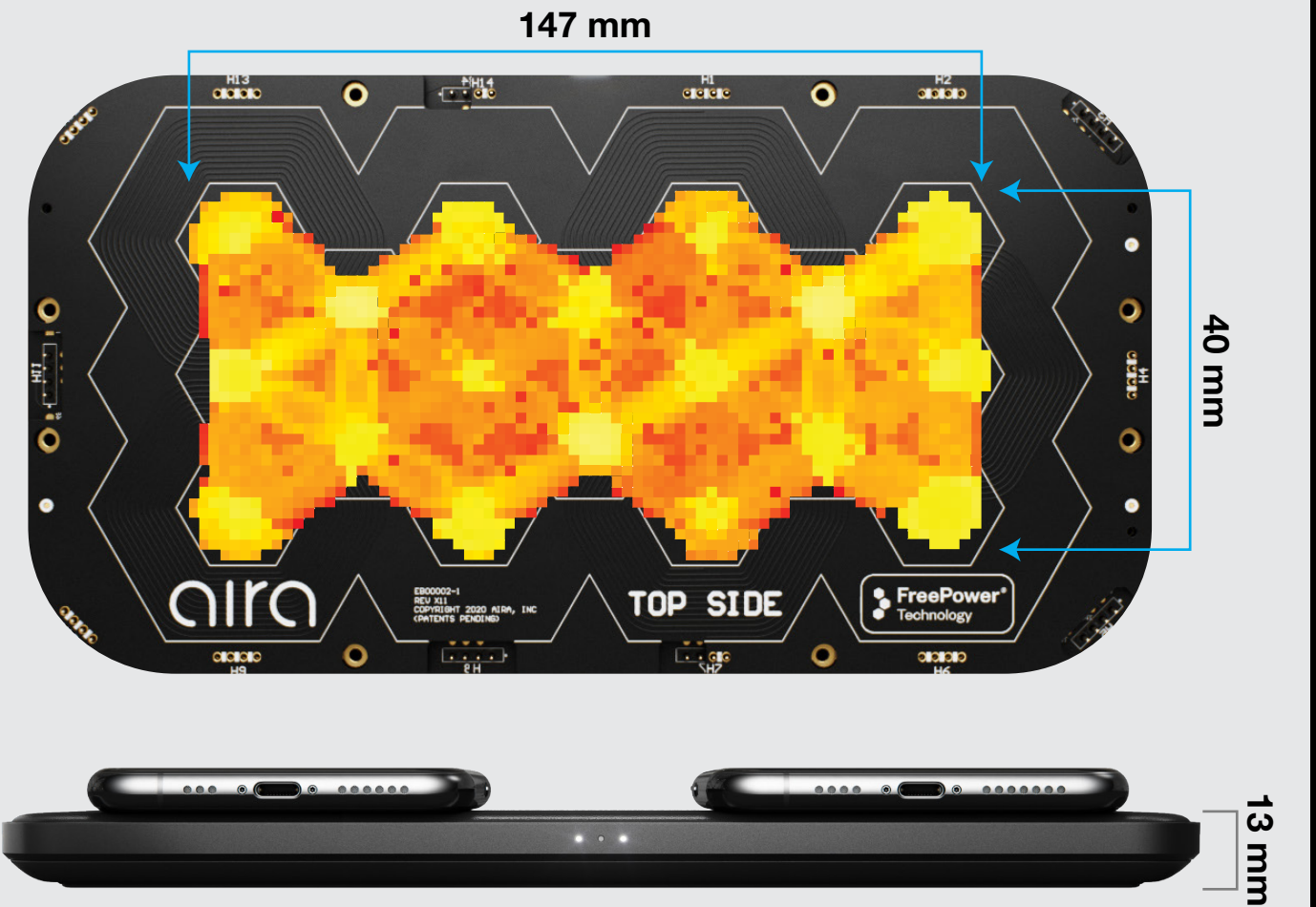
Panasonic Moving Coil
Outer Dimensions: 126mm x 80.5mm



NXP WCT-5WTX 3-Coil Auto
Outer Dimensions: 167mm x 88.5mm



Aira FreePower Gen 1
Outer Dimensions: 215mm x 118mm



FreePower Experience Tool

Visualize

Stream all of the real time data out of our charger to understand performance and function

Benchmark

Collect and store data as you run tests of different devices in different conditions.

Experience

Get the full experience of working with FreePower utilizing our tools and wireless power experts.





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FreePower®
Technology

airapower.com

Pioneering the most advanced
wireless charging experiences.

Aira, Inc.

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