

# INNOVATE YOUR LIFE A TRUE WIRE-FREE FUTURE

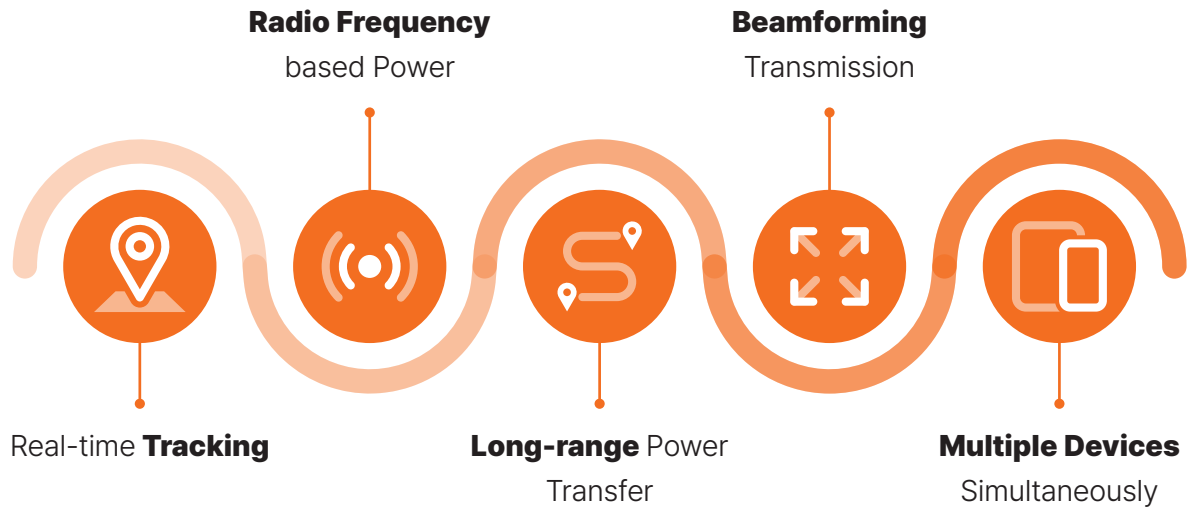
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warps

Wireless recharge & RF Power  
WARP solution

# WARPS technology



## Business Product Prototypes

Both transmitter and receiver can be customized and embedded into a number of different IoT devices



**SPACE:ON**  
RF Type  
LED Lamp with Wireless Charger

**BRIDGE:ON**  
RF, Inductive(Qi) Type  
Wireless Charger

**BAR:ON**  
RF Type  
Wireless Charger

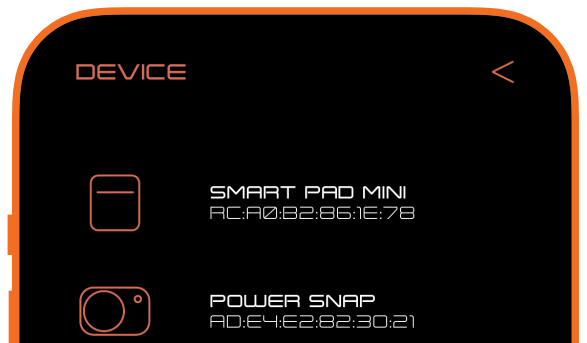
**ENERGY BOX**  
RF Type  
UVC LED with Wireless Charger



**CUSTOMIZABLE TRANSMISSION SYSTEM**  
Long-distance wireless charging TX / Highly gain antenna  
460 x 460 x 105 (mm)

## Software Controlled

WARPS provides a software to perfectly control WARPS devices.



# Rectifier Diode WEP Series

## WEP1



## WEP3



## WEPS



## Typical Performance Characteristics

	WEP1	WEP3	WEPS
SIZE	6 x 6 x 2 [mm]	6 x 6 x 2 [mm]	18 x 18 x 3 [mm]
Conversion Efficiency (RF to DC)	Max. 60%	Max. 60%	Max. 60%
RF Operating Range	0 to 32 dBm	0 to 35 dBm	0 to 33 dBm @1W 0 to 35 dBm @3W
Frequency Range	0.1 to 6 GHz	0.1 to 6 GHz	0.1 to 6 GHz
Internal Configuration	Diode / Matching Circuit	Diode / Matching Circuit	Diode / Converter / Matching Circuit

## Possibilities are Endless!

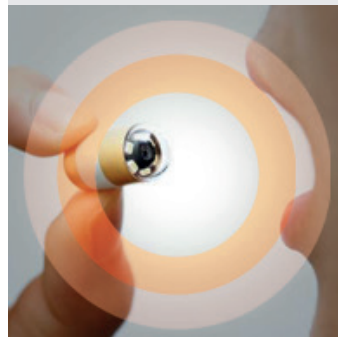
### Smart Home

As IoT market size increases evidently, we expect smart homes with unlimited features. With WARPS technology, we can power and adjust settings in living spaces just in a few touches.



### Medical Device

Industrial level of wireless charging system involves power transferring to machines and robots and gathering data over the air. All this done in real time will increase efficiency and minimize downtime.



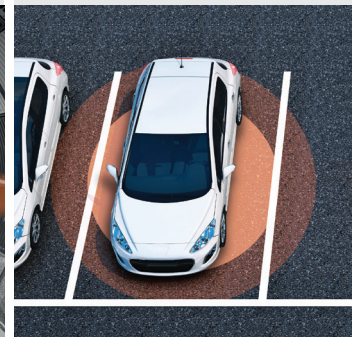
### Ai Robot

Wireless power transfer can be very beneficial to medical devices. With WARPS technology, batteries for implantable devices won't need to be replaced. It can simply be recharged!



### Electric Vehicles

Imagine wirelessly charging pads in parking lots, and imagine more. Wireless charging system embedded lanes are possible. Charging your electronic devices will be just simple as ABC with WARPS.





**We provide  
the power you need!**

WARPS Hybrid Radio Frequency based Power Amplifier Package is a core component of long-range wireless charging and 5G network. We participate in PA production exclusively: from circuit drawing to package designing.

WARPS technical resources concerning PA design techniques and patents-awarded methods secure its high quality. Improvement has been shown in thermal performance and speed of delivery. Size and cost of products are significantly reduced; circuit matching process is unnecessary. Meet our highly efficient PA products offered for a variety of applications.



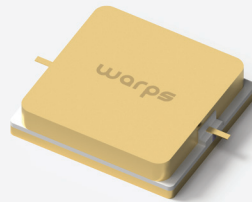
## WARPS Power Amplifier Products

All WARPS PA products can be customized for each order



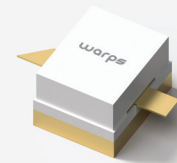
### GaN SIMFETs

Small Internally Matched FET  
3.4GHz - 3.7GHz  
15mm X 8.6mm



### GaN IMFETs

Internally Matched FET  
L, S, C, X-Band IMFET  
16.6mm X 15mm



### GaN Power Transistors

Package Discrete Type  
Up to 10GHz  
5.1mm X 4.1mm



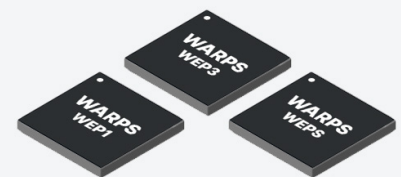
### Power Amps Module

Wide Band PA Module  
30MHz - 512MHz  
70mm X 38mm



### Pallet RF Power Amplifiers

RF based Wireless Power Transfer Module  
5.7GHz - 5.9GHz  
50mm X 47mm X 53mm



### WEPS

Rectifier Diode  
100MHz to 6GHz  
18mm X 18mm X 3mm



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