



Preliminary Product Brief

GuRu Wireless ReconEagle Power Beaming Platform Autonomous In-flight Charging Solutions

Name	Date	Comments
GW-RECONEAGLE-PB-00	May 3, 2026	Initial Release
GW-RECONEAGLE-PB-01	July 14, 2026	Updated header page

ReconEagle Platform Preliminary Product Brief

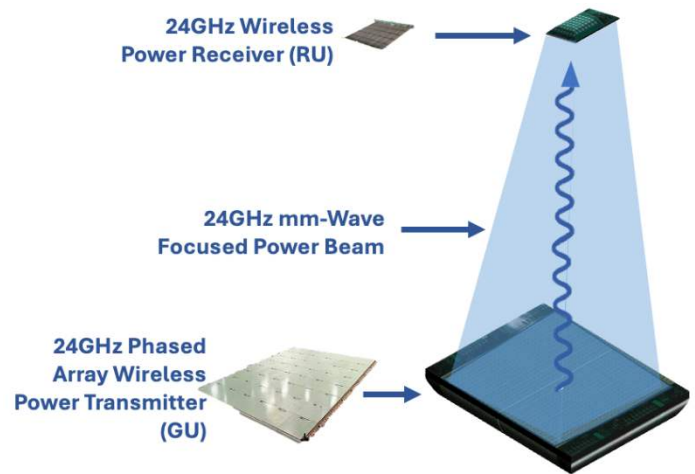
Overview

GuRu Wireless, Inc. has developed the first tether-less persistent-flight small Unmanned Aerial System (sUAS) solutions for mission-critical use cases including intelligence, security, and reconnaissance (ISR) and communications network extension and relay.

ReconEagle power beaming systems extend sUAS endurance from minutes to hours or days through wireless in-flight battery recharging, *eliminating physical connections* while supporting ISR and communications at operational altitudes.

Continuous, uninterrupted access to the sUAS payload enhances mission effectiveness and reduces the risk to warfighters. Eliminating the need to land, recharge, swap batteries, or manage tethers also reduces personnel requirements. This autonomous in-flight recharging capability enables UGV/UAS mission pairing, expanding options for first-encounter and counter-UAS missions.

ReconEagle Power Beaming Platform

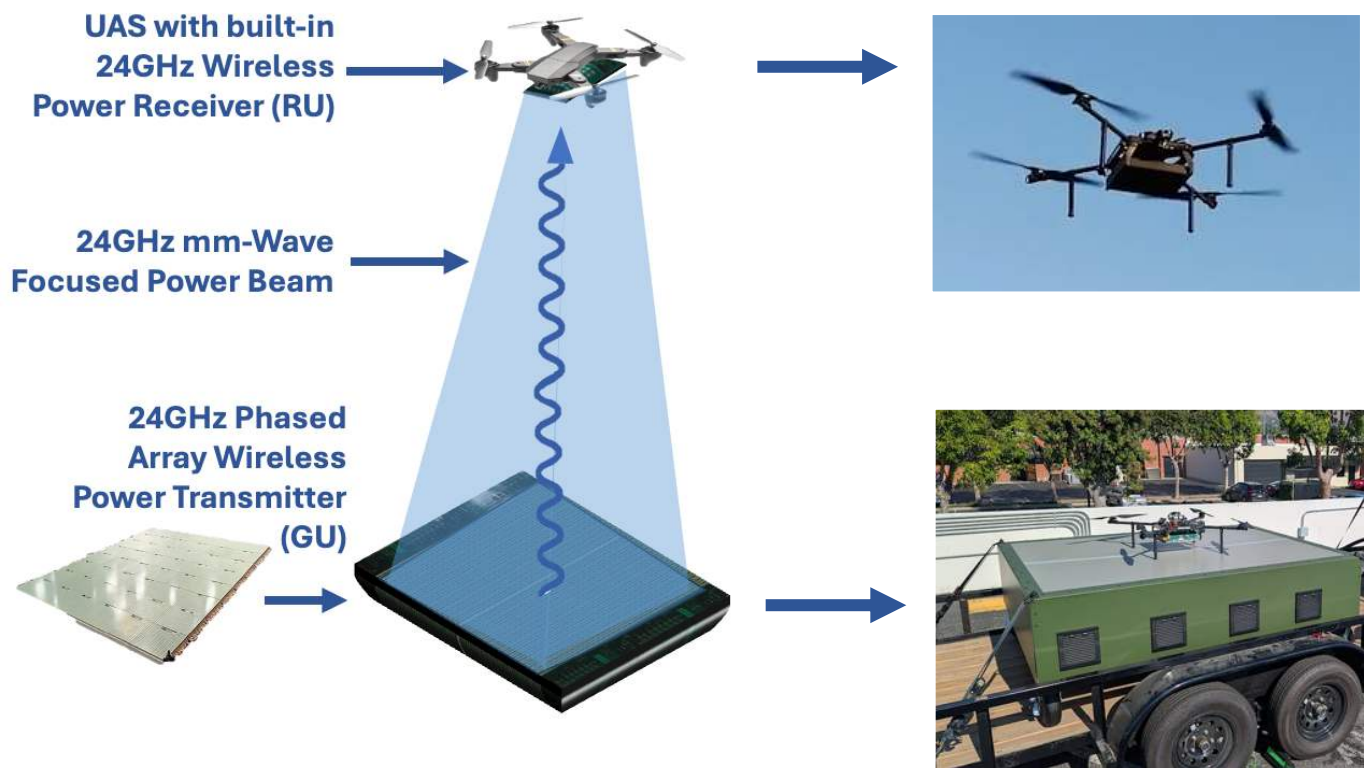


How it Works

GuRu's system uses a ground-based Generation Unit (transmitter) built around a software-steered 24GHz phased array to convert electrical power into tightly focused RF beams. Using digital beamforming and proprietary GuRu RF Lensing®, the system forms, steers and concentrates energy in real time to deliver power efficiently at range while suppressing sidelobes. A compact onboard Recovery Unit (receiver) locks onto the beam, converts RF energy into regulated DC power, and feeds the sUAS battery or power management system. Closed-loop tracking maintains alignment with moving targets, and the system can time-share or multiplex beams across multiple receivers.

This capability is enabled by GuRu's scalable Long Range Wireless Power Beaming (LRWPB) platform, which integrates power weight efficient receivers into purpose-built aerial platforms. The result is persistent flight operation for applications including border security, base protection, convoy operations, maritime surveillance, and critical infrastructure monitoring.

ReconEagle Platform Preliminary Product Brief



Performance Roadmap

GuRu's persistent ISR capability roadmap is focused on continuous performance improvements across power, range, and operational flexibility. These advances span the full system including transmitters, receivers, and aerial platform stacks. Transmitters are evolving from fixed installations to ruggedized mobile units with higher output power, tighter beam control, and more advanced software, including multi-beam scheduling. Receivers are progressing toward lighter, higher-efficiency rectenna and power-electronics modules with improved thermal performance and tighter system integration, reducing SWaP while increasing harvested power. On the aerial side, platforms are being optimized to support more demanding payloads as available power increases, expanding from basic EO/IR ISR to communications relay, RF sensing and interrogation, compact radar, and onboard edge-AI processing.

ReconEagle Platform Preliminary Product Brief

ReconEagle Gen-1 Platform Technical Specifications

	Generating Unit (GU)			Recovery Unit (RU)			
Product Name	Size, m	Weight, Kg	Input Power, kW	Size, cm	Weight, g	Output Power, W ⁽⁴⁾	Charging Height, m
ReconEagle CR							
RE-1S/M-1212-1515-015	1.2 X 1.2	68	6	15 x 15	225	205	15 ⁽¹⁾
RE-1S/M-1212-1520-015	1.2 X 1.2	68	6	15 x 20	265	235	15 ⁽¹⁾
RE-1S/M-1212-2020-015	1.2 X 1.2	68	6	20 x 20	345	270	15 ⁽¹⁾
ReconEagle MR							
RE-1S/M-1722-2525-045	1.7 x 2.2	365	20	25 x 25	480	580	45 ⁽¹⁾
RE-1S/M-1722-3030-045	1.7 x 2.2	365	20	30 x 30	640	710	45 ⁽¹⁾
RE-1S/M-1722-3535-045	1.7 x 2.2	365	20	35 x 35	820	805	45 ⁽¹⁾
ReconEagle LR							
RE-1S/M-2727-2525-090	2.7 x 2.7	710	45	25 x 25	480	750	90 ⁽¹⁾
RE-1S/M-2727-3030-090	2.7 x 2.7	710	45	30 x 30	640	1245	90 ⁽¹⁾
RE-1S/M-2727-4040-090	2.7 x 2.7	710	45	40 x 40	1025	1490	90 ⁽¹⁾
RE-1S/M-2727-5050-090	2.7 x 2.7	710	45	50 x 50	1495	1770	90 ⁽¹⁾

ReconEagle Gen-2 Platform Technical Specifications

	Generating Unit (GU)			Recovery Unit (RU)			
Product Name	Size, m	Weight, Kg	Input Power, kW	Size, cm	Weight, g	Output Power, W ⁽⁴⁾	Charging Height, m
ReconEagle CR							
RE-2S/M-1212-1515-015	1.2 X 1.2	68	6	15 x 15	225	515	15 ⁽¹⁾
RE-2S/M-1212-1520-015	1.2 X 1.2	68	6	15 x 20	265	590	15 ⁽¹⁾
RE-2S/M-1212-2020-015	1.2 X 1.2	68	6	20 x 20	345	675	15 ⁽¹⁾
ReconEagle MR							
RE-2S/M-1722-2525-045	1.7 x 2.2	365	20	25 x 25	480	1450	45 ⁽¹⁾
RE-2S/M-1722-3030-045	1.7 x 2.2	365	20	30 x 30	640	1775	45 ⁽¹⁾
RE-2S/M-1722-3535-045	1.7 x 2.2	365	20	35 x 35	820	2015	45 ⁽¹⁾
ReconEagle LR							
RE-2S/M-2727-2525-090	2.7 x 2.7	710	45	25 x 25	480	1870	90 ⁽¹⁾
RE-2S/M-2727-3030-090	2.7 x 2.7	710	45	30 x 30	640	2500	90 ⁽¹⁾
RE-2S/M-2727-4040-090	2.7 x 2.7	710	45	40 x 40	1025	3725	90 ⁽¹⁾
RE-2S/M-2727-5050-090	2.7 x 2.7	710	45	50 x 50	1495	4425	90 ⁽¹⁾
RE-2S/M-2727-2525-150	2.7 x 2.7	710	45	25 x 25	480	690	150
RE-2S/M-2727-3030-150	2.7 x 2.7	710	45	30 x 30	640	965	150
RE-2S/M-2727-4040-150	2.7 x 2.7	710	45	40 x 40	1025	1650	150
RE-2S/M-2727-5050-150	2.7 x 2.7	710	45	50 x 50	1495	2345	150

ReconEagle Platform Preliminary Product Brief

Technical Specification Notes:

1. Optimum charging height above GU/transmitter
2. Supported battery types: 4S to 6S
3. Custom system configurations available upon request
4. RU output power is DC power delivered to drone BMS

System Specification Nomenclature

AQ-aa-bbbb-cccc-ddd

AQ: Product Name

aa: a= Generation #

a= Model [Static (S) or Mobile (M), or Custom (X) s/w version]

bbbb: GU size in meters

cccc: RU size in centimeters

ddd: charge height in meters