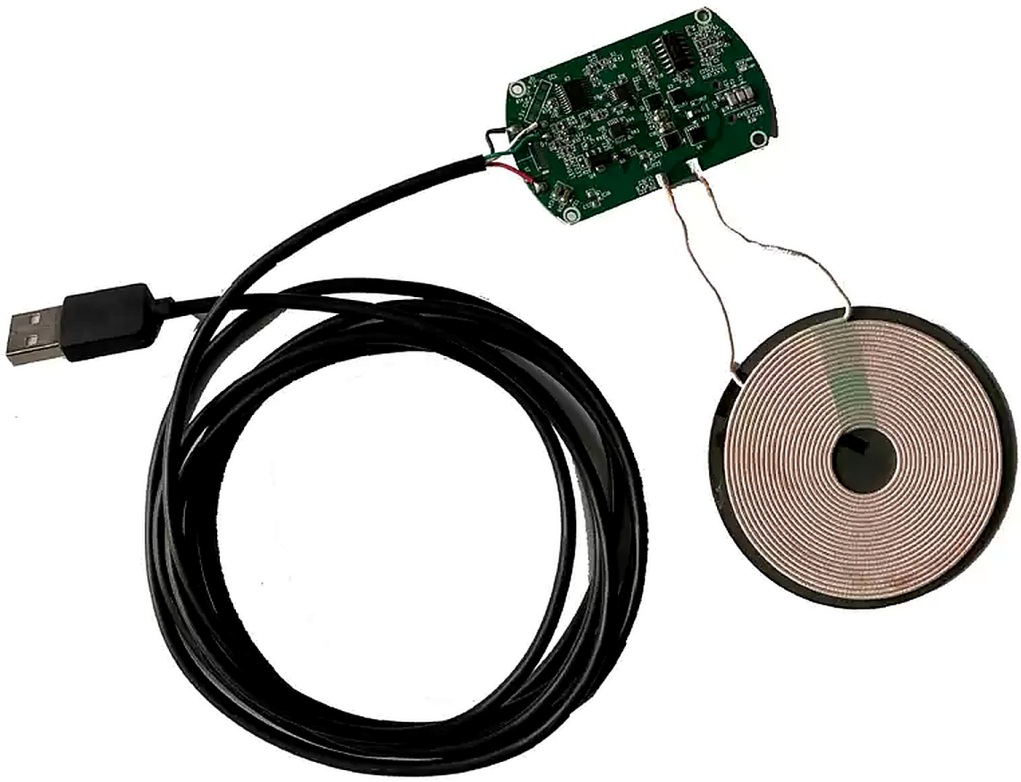
SiCore Dynamics

Long-Range Wireless Charging Module

Compact 5-12 V wireless charging platform with a 5-25 mm operating air gap



5-12 V Input voltage	**5-25 mm** Operating air gap	**70 mm** Coil diameter

Product Overview

This compact wireless charging module combines a control board and a 70 mm charging coil. It is designed for applications that need power transfer across a physical separation, with a specified operating air gap of 5-25 mm. The module accepts a 5-12 V input through either a Type-C connector or soldered input leads.

Parameter	Specification
Input voltage	5-12 V DC
Input connection	Type-C connector or soldered leads
Operating air gap	5-25 mm
Coil diameter	70 mm
Enclosed pad dimensions	Approx. 105 x 80 x 10 mm
Cable length	Approx. 1.5 m
Board placement	Control board may be mounted behind the coil for a compact stacked arrangement

Key Features

• Extended 5-25 mm charging separation for installations where direct contact is undesirable.

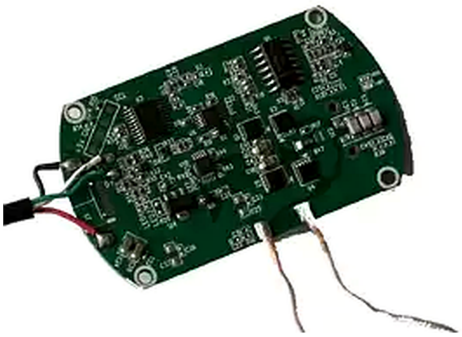
• Flexible 5-12 V DC input with Type-C and solder-wire connection options.

• Compact 70 mm planar coil suitable for integration behind non-metallic surfaces.

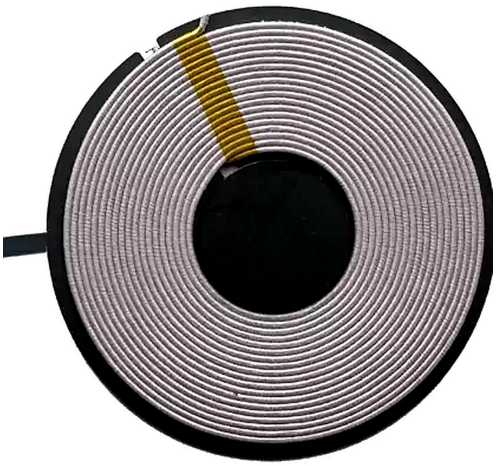
• Optional enclosed pad format with a low-profile 10 mm housing.

• Clean cable-based installation for prototypes, embedded equipment, and charging fixtures.

Product Configuration



Control Board
Accepts 5-12 V DC. Input is available through the Type-C connector or soldered input leads.



70 mm Planar Coil
Circular low-profile coil for installations requiring a compact charging surface.

Integration Notes

• **Surface material:** Install the coil behind a non-metallic surface. Metal between the two coils can reduce coupling and may cause heating.

• **Alignment:** Center the transmitter and receiver coils as closely as possible for repeatable power transfer.

• **Air gap:** The supplied images specify a 5-25 mm operating range. Performance at any particular gap depends on alignment, load, and surrounding materials.

• **Thermal verification:** Confirm component and coil temperatures under the intended load before production release.

• **Electrical qualification:** The source material does not specify output power, efficiency, regulation, protection limits, or compliance certifications. Verify these values for the final system before publishing them as guaranteed ratings.

Mechanical Reference

ENCLOSED CHARGING PAD - DIMENSIONS

Housing: 105 x 80 x 10 mm

Cable length: 1.5 m

Operating air gap: 5-25 mm

Available Formats

Open-frame module	Control board and planar coil for product integration.
Enclosed charging pad	Low-profile housing with an approximately 1.5 m cable.

Documentation Note

This sheet was prepared from the supplied product images. Values marked “approx.” are image-derived mechanical references. Confirm final electrical ratings, output characteristics, environmental limits, and regulatory status with the manufacturer or by engineering validation before commercial release.