

15W Magnetic Wireless Charging Transmitter Module

Compact magnetic wireless-power transmitter with Qi / QC / PD supply-interface support



15 W magnetic wireless charging transmitter for embedded product integration

A compact transmitter PCBA and 44 mm charging coil designed for magnetic-alignment charging applications. Source annotations identify a 5-9 V supply range, Qi/QC/PD support and Apple charging-animation support.

Source package contains five product images and no webpage/HTML file. Product hardware in the English figures is preserved from the supplied photographs; only surrounding Chinese annotations were replaced.

1. Functional Description

The 15W Magnetic Wireless Charging Transmitter Module combines a compact transmitter controller PCB with a circular inductive coil and magnetic/ferrite backing. The module is intended for embedded charging products and is shown with a USB Type-C cable assembly. Source annotations identify support for Qi / QC / PD power arrangements and a 5-9 V supply range. The charging face is the copper-coil side; the ferrite-shield side is the rear and should not be installed facing the device.

2. Key Features

Rated product class	15 W magnetic wireless charging transmitter.
Supply range	5-9 V, as stated in the source image.
Protocol/interface notation	Qi / QC / PD support is stated in the source.
Compact controller PCB	Approximately 2.7 x 2.8 cm from the dimensioned source image.
Charging coil	44 mm diameter.
USB data/power pads	PCB labels include PD, D-, D+, positive and negative.
Apple charging animation	Source states support for the charging pop-up/animation on supported iPhone 12 and later models.
Cable configuration	A USB Type-C cable assembly is shown in the supplied product photo.

3. Electrical Characteristics

Supply voltage	5-9 V.
Wireless output power	15 W product class; exact profile/derating table TBD.
Power/protocol support	Qi / QC / PD notation shown.
PCB terminals	Negative, PD, D-, D+, Positive.
Input current	TBD.
Operating frequency	TBD.
Efficiency	TBD.
Protection functions	TBD - confirm FOD, overtemperature, overcurrent, overvoltage and short-circuit protection.

4. Mechanical Specifications

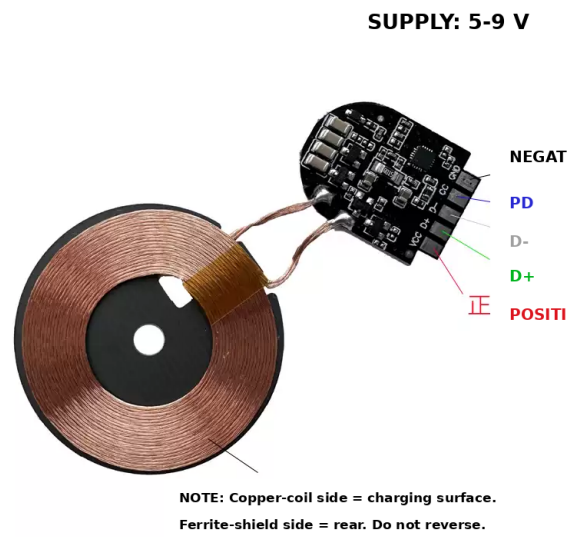
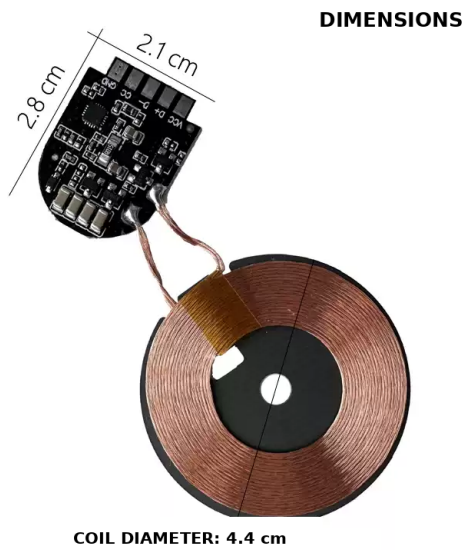
Controller PCB size	Approx. 2.7 x 2.8 cm.
Coil diameter	4.4 cm (44 mm).
Charging surface	Copper-coil side faces the receiving device.
Rear surface	Ferrite/magnetic shielding side.
Cable	USB Type-C cable assembly shown; exact length TBD.
Assembly thickness	TBD.
Weight	TBD.

5. Interface / Pin Summary

Positive	Positive supply connection.
Negative	Negative / return connection.
PD	PD-labeled interface pad.
D+ / D-	USB data-line pads shown on the PCB.
Coil connection	Factory-connected transmitter coil.
USB Type-C cable	Pre-wired product configuration shown in source photography.

6. Installation Orientation

The supplied source explicitly warns that the copper-coil face is the charging face and the opposite ferrite/magnetic-shield face is the rear. Reversing this orientation can reduce or prevent proper wireless-power transfer. Final product integration should also keep unintended metal away from the active charging path.



7. Apple Device Application



The source states that the Apple charging animation is supported for iPhone 12 and later models, while iPhone 8 through iPhone 11 Pro Max do not natively support that animation. This statement concerns the user-interface animation shown in the source and should not by itself be interpreted as a complete device-compatibility or certified charging-power matrix.

8. Typical Applications

Magnetic phone charging docks, automotive center-console chargers, phone holders, furniture-integrated chargers, desktop charging stations, smart equipment and other embedded products requiring a compact magnetic wireless-power transmitter.

9. Production-Release Data Required

Before controlled release, confirm formal Qi/Qi2 certification status, exact 5 W / 7.5 W / 10 W / 15 W power profiles, input-current requirement, QC/PD revisions and negotiation behavior, operating frequency, efficiency, magnetic alignment force/geometry, charging gap, thermal derating, foreign-object detection, protection thresholds, PCB/coil thickness, cable length, operating/storage temperature and applicable FCC/UL/ETL/CSA or other certifications.

10. Product Classification

Primary category: Magnetic Wireless Charging Transmitter

Product type: 15W Embedded Magnetic Wireless Charging Module

Supply: 5-9 V

Coil diameter: 44 mm

Controller PCB: Approx. 27 x 28 mm

Interface notation: Qi / QC / PD

Document status: Preliminary English datasheet derived solely from the five supplied product images. No webpage file was present. Unsupported electrical values have not been introduced.