

Product datasheet SPECIFICATION

NAME (SERIES): THREE-COIL WIRELESS CHARGING MODULE

ITEM: MXC-A28

Version Information: V1.0



Revision Table

numbering	Version number	Reviser	Revisions	date
1	V1.0		Create a document	2023/10/13

Approval records

Version number	Approver	Approval opinions	date
V1.0			



1. Product Introduction

(1) Overview

A wireless charging module is a device that integrates wireless charging technology into the module, which usually consists of two parts: a transmitter and a receiver. The transmitter is responsible for generating high-frequency electromagnetic fields, while the receiver is responsible for converting this electromagnetic field into electrical energy for charging, which is a convenient, safe, applicable, energy-saving and environmentally friendly charging method, which can provide users with a more convenient and comfortable charging experience.

(2) Product features

- ◆ Convenience: Users don't need to use the charging cable to connect the device, just need to place the device in the charging area.
- ◆ Safety: The electromagnetic wave energy transmission method adopted will only transmit electrical energy to the equipment that can receive electromagnetic waves within the electromagnetic field range, and will not cause harm or electromagnetic wave interference to the human body.
- ◆ Applicability: Compatible with a variety of devices, such as mobile phones, smart watches, headphones, etc., as long as the device supports wireless charging function, you can use the wireless charging module for charging.
- ◆ Energy saving and environmental protection: It can avoid the waste and loss of charging cables, and also reduce the negative impact of waste charging cables on the environment.



2. Product appearance and structure drawing



Figure 1 Front



Figure 2 Back



3. Product Parameters

Model	MXC-A28
Master control	IP6809
Input	DC12V <u>±10%</u>
voltage/current	
Standby current	Average quiescent current: 25mA
Charging efficiency	The system has a charging efficiency of up to 79%.
Charging distance	The charging equipment needs to be charged 2-4mm
	away from the coil of the wireless charging module
LED indicator	support
Upgrade method	Burner upgrade
Structural	59*100 (mm)
dimensions	
Operating	-20°C-+70°C
temperature	
Storage temperature	-30℃-+85℃
Humidity	<70%
requirements	

4. Software Features

	PD3.0 input requests are supported	
Wireless charging	PID algorithm is adopted	
protocol	Compatible with WPC Qi v1.2.4 standard	
	Support 5W	
Charging power	Support 7.5W	
	Supports 10W	
	Supports 15W	
FOD foreign body	Support	
detection function	Suppor t	
	5V overcurrent protection: 2A	
	9V over-current protection: 2.5A	
	12V Overcurrent Protection: 2.2A (20W Transmitter	
	Protection)	
	NTC over temperature protection: 70° C±5° C	
protection	NTC overtemperature recovery: 60° C±5° C	
	Locking time after NTC over-temperature	
	protection: 10 minutes	
	Under-voltage protection: < 4.5V	
	Overvoltage protection: >13.5V	
	Operating temperature: -20-85° C±5° C	



	Power-on: Flashing	
	Standby: Solid on	
LED1. Green light	Charging Complete (Full): Solid on	
	Undervoltage/Foreign Body/Overcurrent: Flashing	
	Overtemperature: Flashing	
	Power-on: Flashing	
IEDO Dod limb+	Charging: Solid on	
LED2. Red light	Overtemperature: Flashing	
	Overvoltage/DPM/RX/Abnormal: Blinking	