

Key Features

- Compact, low profile module
- Designed for Qi Compatibility
- Compatible Transmit module (Ag311)
- Automatic transmitter identification
- Low standby power consumption
- Foreign object detection
- Small Module size: Ag301 – 31 x 23mm (Ag311 – 33 x 29mm)
- Up to 5 Watts Output Power (Ag301)
- Overload and short-circuit protection
- Minimal low cost extra components needed

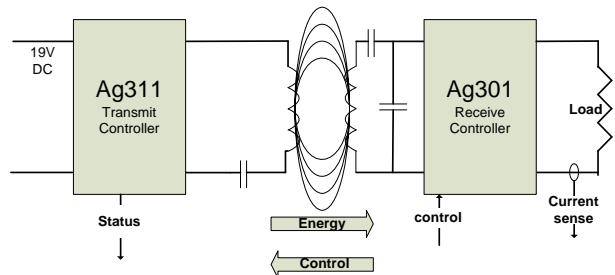
Product Overview

Silvertel's Ag300 series is aimed at wireless charging applications, designed for Qi compliance. Ag301 is the receiver module, while Ag311 is the transmitter module. The modules allow simple, fast design of Wireless Charging products. The solution delivers all the benefits of wireless charging, including improved safety, with no cables or exposed contacts, in two easy to integrate modules. Full safety and control features are built in to both modules. This is an ideal solution for industrial, scientific or commercial applications requiring a robust wireless charging design.

The modules are designed for simple integration, requiring the addition of just a few extra components. The controller IC is also available for very high volume applications.

The receiver module provides a low ripple, low noise regulated output. Overload and short-circuit output protection are built-in. The Receiver provides a 5V regulated output voltage with a peak current rating of 1.2A.

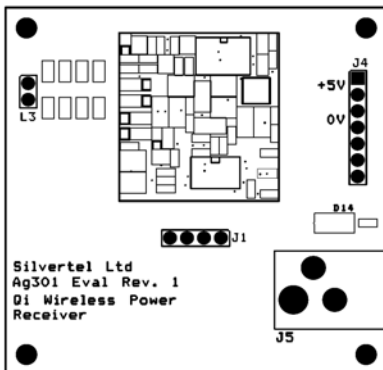
Wireless Charging Overview



Ag301 Specifications

Electrical Information	
Output Voltage	5V DC +/- 0.25V
Output Current	1A (1.2A max.)
System Efficiency	~ 75% (system dependent)
Coil distance/ working zone	4mm-5mm nominal

Eval Board for Ag301



Full evaluation kits are available for both transmit and receive modules.

Mechanical Specifications

Connector/Solder Pads	2x3 :- 2mm sq.x 2.54mm pitch
Module Dimensions	31mm x 23mm x 3.8mm

Pin Outs

Connector Pads 1	Pin Function
Input 1	Coil connection
Input 2	External shutdown
Input 3	Coil connection
Connector Pads 2	Pin Function
Output 1	5V out
Output 2	Charge Indication
Output 3	GND