

## Key Features

- Compact, low profile module
- Designed for Qi Compatibility
- Compatible Receive module (Ag301)
- Automatic receiver identification
- Low standby power consumption
- Foreign object detection
- Small Module size: Ag311 – 33 x 29mm (Ag301 – 31 x 23mm)
- Type A1/A10 - 19V input to module
- Overload and short-circuit protection
- Minimal low cost extra components needed

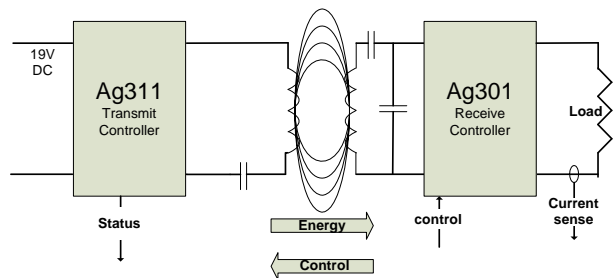
## Product Overview

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

Silvertel's Ag311 is a Qi type A1/A10 half-bridge based solution, single coil with or without an aligning magnet arrangement, requiring a standard 19V input to the transmitter module.

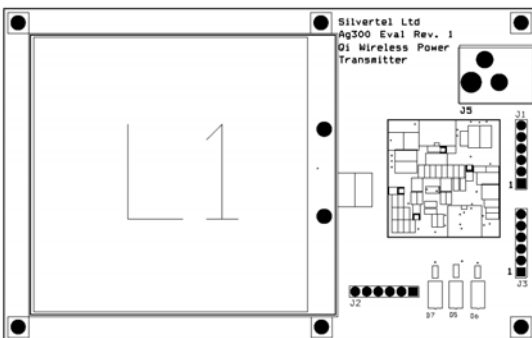
## Wireless Charging Overview



## Ag311 Specifications

Electrical Information	
Input Voltage	19V DC +/- 0.5V
Input Current	0.5A (max.)
System Efficiency	~ 75% (system dependent)
Coil distance/ working zone	4mm-5mm nominal

## Eval Board for Ag311



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

Mechanical Specifications	
Connector/Solder pads	4x1 and 8x1 2mm sq.x 2.54mm pitch
Module Dimensions	33mm x 29mm x 4.1mm
Mounting Holes	4 x Ø 3.2mm

## Pin Outs

Connector 1 Pins	Pin Function
1	19V in
2	19V in
3	GND
4	GND
5	Buzzer Control
6	Ext. Shutdown Control
7	Status Out 1
8	Status Out 2
Connector 2 Pins	Pin Function
1	Coil Return
2	Coil Return
3	Coil Out
4	Coil Out