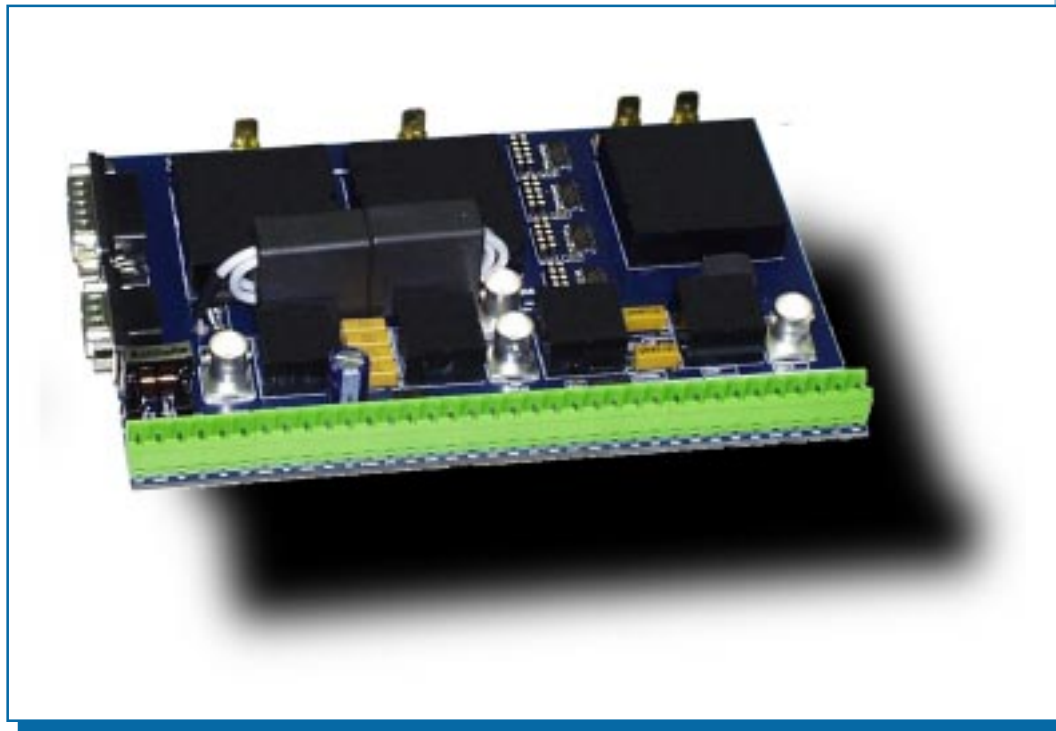


## MASTER TX/RX AUTOMATIC TUNING UNIT *ATUSP5000*



### Product Overview

Automatic Antenna Tuning Unit to couple the antennas to the RFID reader/encoder. It adjust the ideal tuning point of the antenna, under RIDEL5000 control.

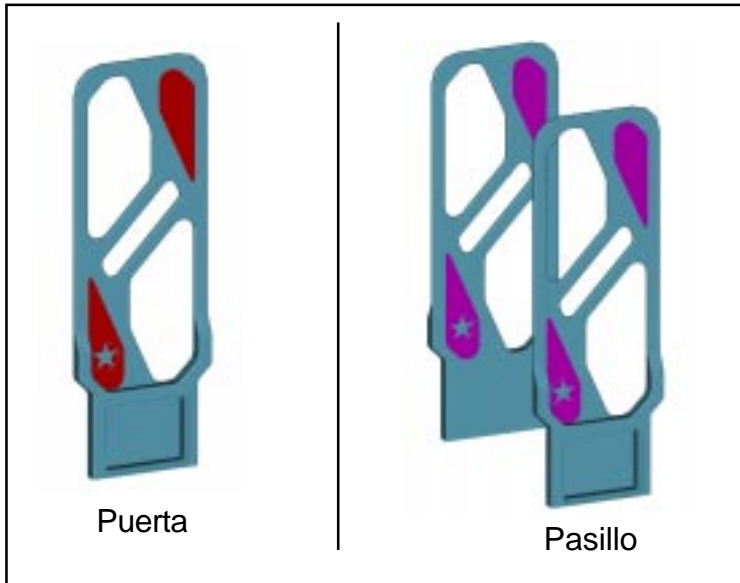
The ATUSP5000 allows the coupling of systems with one or two antennas, both TX/RX, in «door» or «gate» configurations. In the «gate» configuration, the unit works as master.

It is intended to couple both the TX and the RX antennas.

It has a digital input to be controlled from the RIDEL5000 by means of a synchronous serial protocol. If it is used with two antennas, it works as a master for the ANTUN5000 slave unit.

It also includes an I/O expansion port, a combiner to mix the RF signal from 2 RX antennas, and a splitter, to divide the TX signal for 2 TX antennas.

## CONFIGURATION



### Door Configuration:

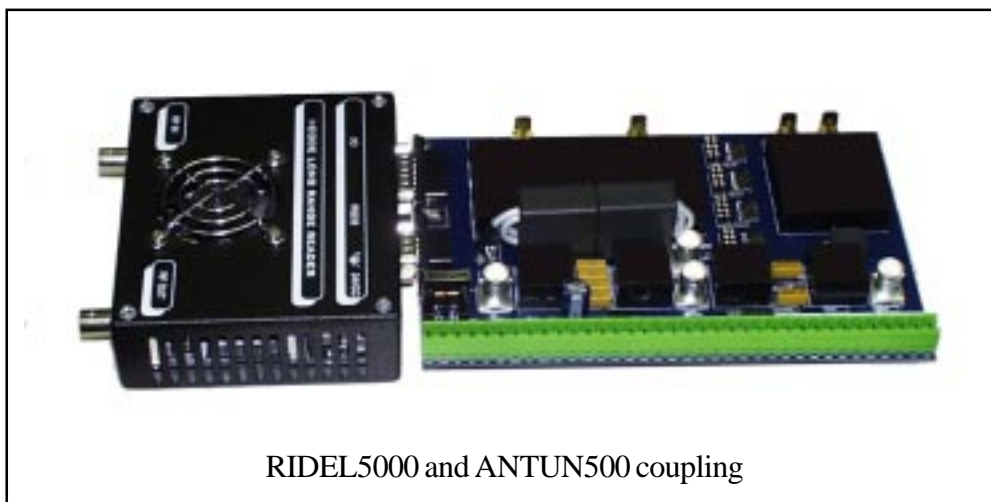
- 1 Antenna ANTLR5000.
- 1 Reader/Encoder RIDEL5000.
- 1 Automatic Tuning Unit ANTUN5000.

### Gate Configuration:

- 2 Antennas ANTLR5000.
- 1 Reader/Encoder RIDEL5000.
- 1 Slave Automatic Tuning Unit ANTUN5000
- 1 Master Automatic Tuning Unit ATUSP5000

## FEATURES

- Tuning by resonant frequency adjustment by means of serial and parallel capacitance.
- Opto-isolated serial control from the RIDEL5000 (Clk, Data, Strobe)
- TX and RX antenna coupling
- Combiner for 2 RX antennas
- Splitter for 2 TX antennas
- I/O Expander. 8 output ports. MOSFET. 3A max. currente



RIDEL5000 and ANTUN500 coupling