



Wireless Towing System Operation & Installation Guide



Australia's Most Advanced Towing System

Warnings & Safety Instructions



Do not operate WiTi unless you have read and understood this manual and WiTi is installed as per the instructions.

- WiTi Wireless Towing Interface requires WiTi Anti-Theft to be installed in the caravan or trailer.
- WiTi automatically pairs when in range but it is always good practice to check the lights before towing to ensure they are all operating.

WiTi Wireless Towing Interface

WiTi replaces the cables connecting a tow vehicle and trailer or caravan with an advanced Wireless Towing Interface. WiTi transmits all lighting and braking signals from the tow vehicle to the caravan or trailer wirelessly. WiTi complies with Australian Design Rules when installed as directed.

WiTi Wireless Towing Interface supports CanBus vehicles and vehicles with advanced electronics. WiTi supports vehicle specific towing modes and features for example, disabling reverse sensors when hitched. These features will be enabled when the WiTi Wireless Towing Interface is in range and paired with the WiTi Anti Theft unit in the caravan or trailer. Please refer to your vehicle hand book for vehicle specific towing modes.

WiTi supports all third party electric brake controllers as well as the WiTi Wireless Electric Brake Controller (sold separately).

Note: Transmission of lighting signals is disabled when the alarm is activated on the trailer.

Specifications



Nominal System Voltage	12V
Operating Voltage	9V - 15V
Operating Current	38mA
Standby Current - low power mode	2mA
Operating Temperature	-20C - 60C
FCC ID	2AC7Z-ESP32
Weight	120g

Contents

1. WiTi Wireless Towing Interface
2. WiTi Communication Module
3. RJ45 patch cable



Installation

The wiring of the 12 pin socket on the tow vehicle must follow Australian wiring guidelines as shown below.

Pin No.	Circuit	Colour
1	Left-hand turn	Yellow
2	Reversing signal	Black
3	Earth return	White
4	Right-hand turn	Green
5	Service brakes	Blue
6	Stop lamps	Red
7	Rear lamps, clearance & side marker lamps	Brown
8	Battery charger / winch	Orange
9	Auxiliaries / Ignition Feed	Pink
10	Earth return	White
11	Rear fog lamp	Grey
12	Auxiliaries	Violet



WiTi Wireless Towing Interface



12 Pin Socket

Pin 8 must be connected to a permanent power supply from the battery in the tow vehicle. It does not have to be a high current supply as the WiTi Wireless Interface will draw very little current.

Pin 9 is optional and can be connected to an ignition source in the tow vehicle. This circuit works in conjunction with the ignition output on the Anti-Theft unit. When the units are paired and the ignition is on in the tow vehicle then the ignition output on the Anti-Theft Unit will provide 12V. The best way to describe this is as a wireless relay. This connection can be used for any device on the caravan that requires an ignition trigger for example DCDC charger, AES fridge or anti sway device in the caravan. This circuit is optional and does not have to be connected if you are not using the ignition output on the Anti-Theft Unit.

NB. Not all vehicles are wired to Australian Standard VSB1 section 14 please test Pin 8 is 12V+ and Pin 9 is Ignition 12V+ before installing WiTi.

To operate simply plug the WiTi Wireless Towing Interface into the 12 pin socket on the tow vehicle.

The WiTi Wireless Towing Interface is supplied with a separate WiTi Communication Module that must be connected to an existing Anti-Theft Unit in the caravan or trailer.

Locate the Communication Module next to the Anti-Theft Unit and connect with the supplied RJ45 cable. There is a corresponding connector at the bottom of the WiTi Anti-Theft Unit and the side of the Communication Module.

The Communication Module is used to wirelessly transfer the lighting and braking signals from the Wireless Towing Interface to the Anti-Theft Unit and then on to the lights and brakes of the caravan or trailer.

WiTi Wireless Towing Interface and Communication Module Indicator Lights

There are two LEDs embedded in the WiTi Logo on the Wireless Towing Interface and Communication Module.

When the unit is powered LED 1 (Red) will illuminate. When the unit is paired and linked then LED 2 (orange) will illuminate.



Pairing a new WiTi Wireless Towing Interface and Communication Module

Ensure the WiTi Wireless Towing Interface and WiTi Communication Module are plugged in and powered on (LED 1 is lit) and in range of each other - within 10 meters.

On the WiTi Wireless Towing Interface unit press and hold the "PAIR" Button.



Whilst still depressing the "PAIR" button, press the RESET Button for half a second and then let go of the RESET button.

When the RESET button is released, you will notice LED2 flashing rapidly while LED 1 is still solid. Let go of the PAIR button. The WiTi Wireless Towing Interface is now in PAIRING mode. The unit will stay in pairing mode for five minutes while searching for the Wireless Communication Module.

Repeat the Pairing Process on the Communication Module in the Caravan or Trailer.

On successful pairing the WiTi LEDs will flash simultaneously for 5 seconds on both units to indicate that they have successfully paired with each other. Once the LED's stop flashing both units will exit PAIRING Mode and return to normal operation. Both LED1 and LED2 will now be illuminated when they are in range and powered.

If either unit did not detect a PAIRING partner during the pairing sequence, then LED 1 and LED 2 will flash in an alternating sequence for 5 seconds (LED1-LED2-LED1-LED2) this indicates that pairing has failed and the unit will then return to normal operation mode with just LED 1 illuminated. Repeat the pairing process.

Operation Guide

WiTi Wireless Towing Interface replaces the traditional cables between a tow vehicle and caravan / trailer with an advanced wireless connection. WiTi transmits all lighting and braking signals using the latest WiFi technologies for fast, secure and stable communication. Although wireless, WiTi is not dependant upon the Internet and communication is point to point between the vehicle unit and trailer unit. The signal is also encrypted for security and other wireless devices will not interfere with the WiTi Wireless Towing Interface (mobile phones, bluetooth, wifi devices, etc.)

No more cables to damage or rip out, no more corroded terminals and no more loose connections.

Low Power Mode

WiTi Wireless Towing Interface will enter low power mode if there is inactivity for 24 hours. In this mode power draw is less than 2 milliAmps. WiTi will exit Low Power Mode when it detects an input from the driving light circuit.

Limited Warranty

If Leisure Technologies determines that you are covered by a warranty as set in the Australian consumer law the company shall at its expense: (a) repair the product or replace the product with a new unit (which may have used refurbished parts of similar quality); (b) ship the repaired or replaced unit back to you; (c) warrant the repaired or replaced product for a reasonable period; and/or (d) refund money paid for the product. The Company has the discretion as to which remedy applies.

Warranty period

The warranty period starts on the date of purchase and ends 24 months later. For the purpose of this limited warranty, the date of purchase is the date indicated on the original bill of sale or receipted invoice for the product from the vendor from which you acquired this product.

How to get warranty service

During the warranty period, if you wish to return a defective product you may contact us via www.witi.com.au. You may then return the defective product to the address given accompanied by an acceptable proof of purchase (a bill of sale or receipted invoice).

What is not covered

The limited warranty does not cover a product:

- for which you are not the original purchaser;
- that is damaged by using in a way that was unreasonable or unintended;
- that is returned after the applicable warranty period set out above has expired;
- that has been installed other than per the product installation guidelines;
- that has been maintained, altered or modified, opened or repaired, other than by the company or by a company authorised service centre;

- that has been physically damaged, other than by the company or a company authorised service centre.
- To the extent permitted by law, Leisure Technologies, its directors, officers, employees, suppliers and agents, shall not be liable for injury to persons or property, or for any indirect, special, incidental or consequential, punitive or exemplary damages and liability and shall be limited to the amount you paid for the product.

Disclaimer

- WiTi products are designed for installation by reasonably competent consumers. Consumers are taken to have sufficient knowledge of the intended caravan or trailer unit and its appropriateness for the installation of any WiTi products.
- Installation of WiTi products may require consumers to have knowledge and experience using powered tools and electrical wiring. Consumers without such knowledge are to refrain from attempting any installation of WiTi products and to consult their nearest WiTi specialist or qualified Auto Electrician.
- Prior to the installation of any WiTi product consumers are taken to have comprehensively read and understood the appropriate WiTi operation and installation guide included with the product.
- It is the consumer's sole responsibility to have WiTi products properly installed on their vehicle and/or trailer units along with any modifications necessary for the proper installation of WiTi products.
- Consumers are solely and completely responsible for evaluating their trailer units to ensure that the trailer units, and each part thereof, is appropriate, adapted and applicable for installation and use of WiTi products.
- Any and all WiTi unit damages caused by a consumer's failure to modify the caravan or trailer properly for installation and use of one or more WiTi products not covered by this disclaimer is the sole responsibility of the consumer.
- Leisure Technologies Pty Ltd and their distributors and resellers also expressly disclaims all liability for direct, indirect, special, incidental, or consequential damages, including but not limited to, damage or loss of property or equipment, injury to person whether physical or not, loss of profits or revenue, cost of purchase or replacement of goods, or claims of customers of the purchaser that result from the incorrect installation of any WiTi Anti-Theft unit or subunit.

Other important notices

To the extent permitted by law, this limited warranty constitutes the entire agreement on the subject matter and supersedes any prior agreement or understanding, written or oral. Where used herein, the company shall mean Leisure Technologies Pty Ltd and its subsidiaries and associates.

Our goods come with guarantees that cannot be excluded under the Australian consumer law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits under your warranty are in addition to other rights and remedies under the law in relation to the product.

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