ST215

User Manual



Suntech International LTD.



Suntech International Ltd.



ST215 Installation Guide

1. Configure ST 215 in the Lab by using Setting Tool.

- Setting MUST be done with back up battery or external power. (12V)
- For the details of configuration, refer to the other document.



2. Decide the location of ST215 and GPS Antenna, and check the cable ways.

- Check whether the location of ST 210 is far away from other electric equipments.
- GPS Antenna must have a sky-view and must be far away from other antenna.

3. Insert SIM card (Can be done at the time of configuration) Steps:

1. Open the battery cover, pick out the battery pack.









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2. Insert the SIM card into the holder in the direction as shown above.

*Caution: when inserting, make sure that the unit is in the disconnected from main power.

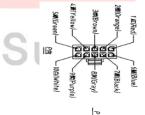
4. Connect GPS Antenna

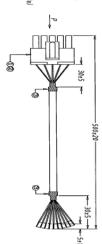
• For avoiding ESD, installer must wear gloves



5. Connect Event Lines with relevant lines of vehicle.







pin 1	Car battery (Main power 8V ~ 30V)	FIX wire
pin 2	Output 1	FIX wire
pin 3	Output 2	FIX wire
pin 4	Input 2	FIX wire
pin 5	Input 3 (Default= Input3 , Option = ADC)	option
pin 6	Ignition	FIX wire
pin 7	GND	FIX wire
pin 8	option 2 (Default = NC)	option
pin 9	option 1 (Default = NC)	option
pin 10	Input 1	FIX wire

Туре	UART	pin 8	UART TX
1	OAKI	pin 9	UART RX
Type 3	CAN	pin 8	CAN_H
		pin 9	CAN_L
Type 4	Input	pin 8	Input4
		pin 9	Input5
Type 5	Output	pin 8	Output4
		pin 9	Output3
Type 6	In/Out	pin 8	Input4
		pin 9	Output3

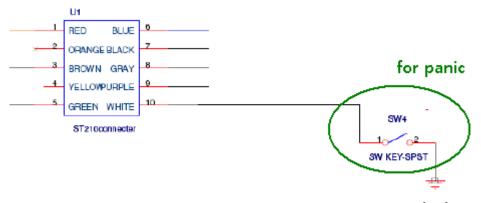
Event Cable Description



- 'red' line of Event cable
 - Connect the red line to 12 VDC /24 VDC Constant power of vehicle
- 'black' line of Event cable
 - Connect the black line to Ground of vehicle
- 'blue' line of Event cable
 - Connect the blue line to an ignition wire of vehicle

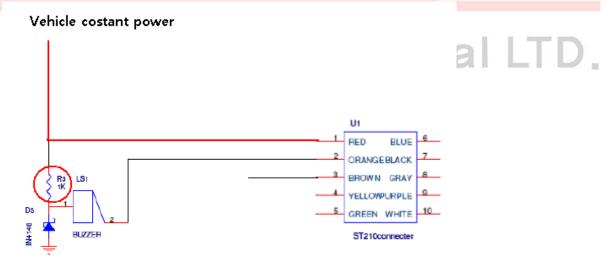
Caution: Never connect the red & blue lines together to a constant power source

- "Yellow, green, white" lines of Event cable
 - For digital input lines
 - *Green line is use for digital input or ADC input according to your order option.



vehicle gnd

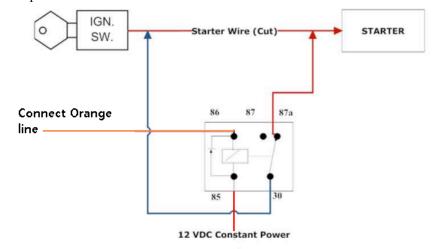
- For ADC Input
 The voltage range of ADC input is from DC 0.5 to 30V
- "Orange, brown" lines of Event cable
 - Output line For siren or buzzer



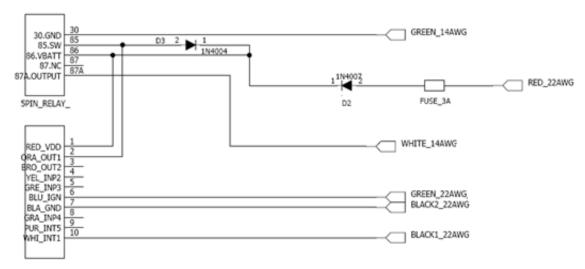
* Set the value of R3(0 ohm or any value) in accordance with the specification of Buzzer or Siren



- Output line For immobilizer



Block Diagram for Immobilizer



ST215 Event connector

Application Circuit for Immobilizer

- "Gray , purple " lines of Event cable
 - These two lines are for optional function which is one of RS232, CAN, Input or Output as below



Туре	UART	p	in 8	UART TX
1		p	in 9	UART RX
Туре	CAN	p	in 8	CAN_H
3		p	in 9	CAN_L
Туре	Input	p	in 8	Input4
4		p	in 9	Input5
Туре	Output	p	in 8	Output4
5	Output	p	in 9	Output3
Туре	e In/Out	р	in 8	Input4
6		p	in 9	Output3

RS232

CAN

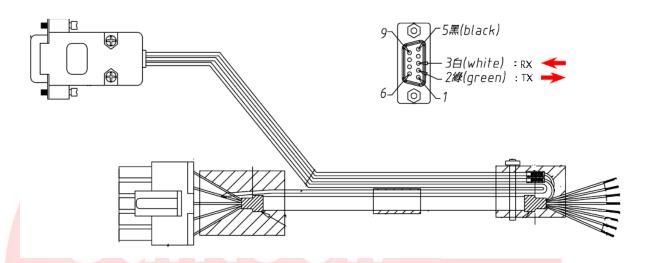
Digital Input

Output

In/Output

*Check if which function is selected.

For RS232 Interface, Refer to the below



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6. Check operation

This device has 2 LEDs on the front that indicates proper operation

• LED blinking

For ST210,

Green LED- indicates GPS status RED LED- indicates GPRS status

*Caution: ST215 device has different LED color



For ST215, RED LED- indicates GPS status



BLUE LED- indicates GPRS status

Refer to separate document for detail operation status.

• Communicate with control center for checking each Event Lines

7. Confirm start of commercial operation with financial department

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interface in a residential installation.

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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