



F A N T E M

# Oomi Touch

(Z-Wave Touch)



**Change history**

Revision	Date	Change Description
1	11/20/2015	Initial draft.

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## 1. Introduction

Oomi Touch is a smart mobility device based on the android OS. It is not only a touch device but also a Z-Wave touch sensor, it has built in a Z-Wave module, which let you can easily receive its sensor notifications form anywhere in the world.

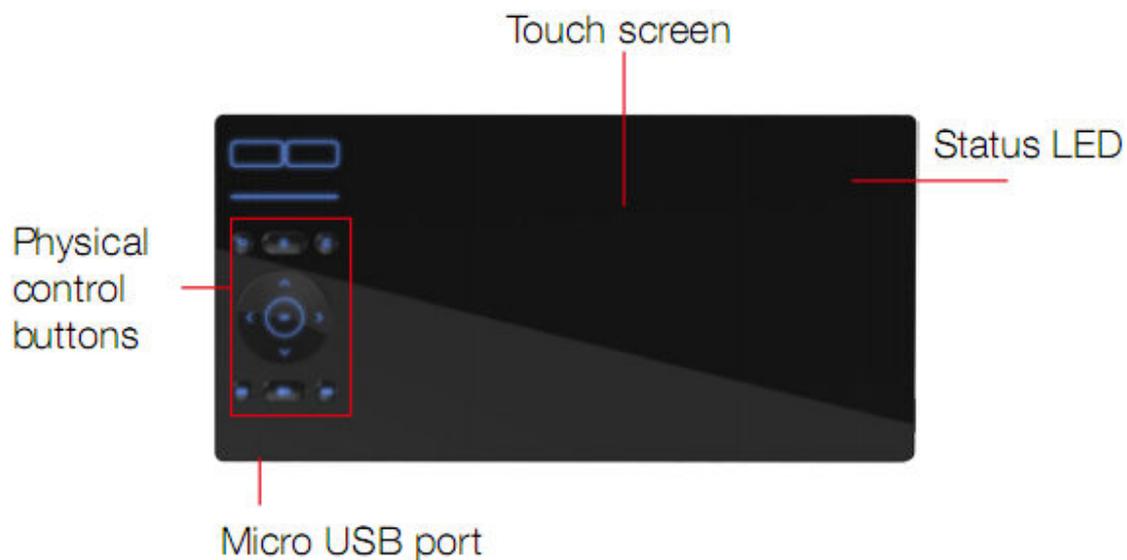
It is a sensor binary device based on Z-Wave routing slave library of V6.51.06.

It is also a security Z-Wave device and supports the Over The Air (OTA) feature for the product's firmware upgrade.

Oomi Touch can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

It also supports Security Command Class and has the AES 128 bit security encryption built right in, so a security enabled controller is needed for fully to utilize its function.

## 2. Familiarize yourself with your Touch



## 3. Basic Network Installation Functions

### Add your Touch to a Z-Wave network.

Press the power button once on the Touch, the Touch would be waked up (Note: If it is in low battery power, please use the DC 5V adapter provided to charge your Touch first). Find out the "ZwaveControl" icon and click it to enter into the operation page.

1. Set your Z-Wave hub/primary Controller into adding/inclusion mode.
2. Press the “Learn” button on the operation page of your Touch.
3. If the Touch has been successfully added to your Z-Wave network, it will pop up a message “the adding is successful”, if not, repeat the steps above.

#### **Remove your Touch from a Z-Wave network.**

Press the power button once on the Touch, the Touch would be waked up (Note: If it is in low battery power, please use the DC 5V adapter provided to charge your Touch first). Find out the “ZwaveControl” icon and click it to enter into the operation page.

1. Set your Z-Wave hub/primary Controller into Removing/exclusion mode.
2. Press the “Learn” button on the operation page of your Touch.
3. If the Touch has been successfully removed from your Z-Wave network, it will pop up a message “Touch is removed from the Z-Wave network”, if not, repeat the steps above.

## **4. Reset your Touch**

When your primary controller/ gateway is missing or inoperable, you may want to reset your Touch, to do this, press the “Reset” button on the operation page of your Touch, your Touch would be reset to its factory default settings.

## **5. Z-Wave Chip**

ZM5101

## **6. Z-Wave version**

SDK V6.51.06

## **7. Z-Wave library type**

Sensor-Notification

## **8. Z-Wave Device Type**

Notification:

Generic Device class: GENERIC\_TYPE\_SENSOR\_NOTIFICATION

Specific Device Class: SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

## **9. Z-Wave Role Type**

Listening Sleeping Slave

## 10. Installer Icon Type

0x0C06 (ICON\_TYPE\_SPECIFIC\_SENSOR\_NOTIFICATION\_ACCESS\_CONTROL)

## 11. User Icon Type

0x0C06 (ICON\_TYPE\_SPECIFIC\_SENSOR\_NOTIFICATION\_ACCESS\_CONTROL)

## 12. Manufacture ID

0x016A

## 13. Product Type ID

US version: 0x0102

AU version: 0x0002

EU version: 0x0202

## 14. Product ID

0x0066

## 15. RF Range

Up to 100 meters outdoors.

## 16. Wireless technology

Z-Wave 908.42MHz/868.42MHz/921.42MHz. Wi-Fi 2.4GHz 802.11b/g/n. Bluetooth 4.0. NFC.

## 17. Z-Wave Command Class list

	Included Non-Secure	Included Secure
<b>Node Info Frame</b>	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_NOTIFICATION V4 COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_BASIC COMMAND_CLASS_BATTERY COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1
<b>Security</b>	-	COMMAND_CLASS_ASSOCIATION_GRP_INFO V1

<b>Command Supported Report Frame</b>	COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_NOTIFICATION V4 COMMAND_CLASS_BASIC COMMAND_CLASS_BATTERY COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2
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## 18. Button functions of each trigger in the touch sensor page

Button	Trigger	Description
Learn Button	Click	<ol style="list-style-type: none"> <li>Let your Touch into Learn Mode which can add it into Z-Wave network or remove it from Z-Wave network.</li> <li>Trigger to send out a Node info frame.</li> </ol>
Unlock Button	Click	Send out a Notification Report CC or Hail CC (configurable).

## 19. Association information

The Touch supports only 1 association group and can add max 5 nodes to this group.

The association group 1 is the lifeline group.

The Notification Report CC and Basic Set CC can be sent to the associated nodes in association group 1.

## 20. Special rule of each command

### Z-Wave Plus Info Report Command Class

Parameter	Value
Z-Wave Plus Version	2
Role Type	6 (ROLE_TYPE_SLAVE_SLEEPING_REPORTING)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0C06 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_ACCESS_CONTROL)
User Icon Type	0x0C06 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_ACCESS_CONTROL)

### Manufacturer Specific Report

Parameter	Value
Manufacturer ID 1	0x01
Manufacturer ID 2	0x6A
Product Type ID 1	EU=0x00, US=0x01, AU=0x02 CN=0x1D (29)
Product Type ID 2	0x02
Product ID 1	0x00
Product ID 2	0x66 (102)

### Association Command Class

The Touch supports 1 association group and can add Max 5 nodes in group 1.

Association Group	Nodes	Send Mode	Send Commands
Group 1	0	N/A	N/A
	[1,5]	Single Cast	Send Notification Report CC/Hail CC when the Sensor is triggered.

#### Association Group Info Command Class

Association Group Info Report Command Class

Profile: General: NA (Profile MSB=0, Profile LSB=0)

#### Association Group Name Report Command Class

Group 1: Lifeline

#### Notification Command Class

Supported Notification type and Event:

Notification Type: Access Control (0x06).

Notification Events for Access Control: MANUAL UNLOCK OPERATION (0x02).

#### Configuration Command Class

Parameter Number Hex / Decimal	Description	Default Value	Size
0x50 (80)	To configure which command will be sent when the Sensor is triggered. Value=0, Send Notification Report. Value=1, Send Hail CC. Other values are ignored.	0	1
0xFF (255)	1, Value=0x55555555、 Default=1、 Size=4 Reset to factory default setting and removed from the z-wave network	N/A	4
	2, Value=0、 Default=1、 Size=1 Reset to factory default setting	N/A	1