Z-Wave Plus™ System Integrators Guide

Document Revision: 1.0

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Installing the Z-Wave Plus Module

IMPORTANT: the batteries must be removed prior to removing and/or inserting the network module:

- Remove battery cover and batteries.
- Remove and/or insert network module.
- Re-install batteries and battery cover

About Z-Wave™

This lock is a security enabled Z-Wave product.

Inclusion (join) is detailed in Programming instruction under “Network pairing instruction”

Exclusion (log off) is detailed in Programming instruction under “Network pairing instruction”

This lock could be integrate with any Z-Wave controller, from any manufacturer. The lock will have limited functionality if integrated with a non-secure controller.

Z-Wave function descriptions

This device is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security S2 enabled Z-Wave Plus products. This device must be used in conjunction with a security enabled Z-Wave controller in order to fully

utilize all implemented functions. This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

-Join a network: inclusion Z-Wave network and add the lock.

- Follow the user guide of hub to enter inclusion mode.
- Operate on lock following guide below:
  - Enter master mode(** + Master PIN Code + #), Wait for 2 Green Lights + 2 Beeps
  - Input “8+1+#” to enter “Inclusion mode” (2 Green Lights + 2 Beeps)

-Log off a network: Exclusion Z-Wave network and remove the lock

- Follow the user guide of hub to enter exclusion mode.
- Operate on lock following guide below:
  - Enter master mode(** + Master PIN Code + #), Wait for 2 Green Lights + 2 Beeps
  - Input “8+2+#” to enter “Exclusion mode”(2 Green Lights + 2 Beeps)

-Factory reset:

- Operations on lock
  - Open the door and keep the lock in "unlock" status
  - Open battery box and find the reset button.
  - Use a sharp thing to press and hold the reset button.
  - Keep holding the reset button for 5 seconds until hearing voice guide.

※Please use this procedure only when the network primary controller is missing or otherwise inoperable.

※Default master pin code is “12345678”, please modify it after reset (Refer to programming instruction).

Z-Wave Plus Info

Manufacturer ID: Kaadas (0x021D)

Z-Wave Device Type: Door Lock keypad

Z-Wave Role Type: Listening Sleeping Slave (LSS)

Product ID: 0x0001

Product Type ID: 0x0003

Supported Command Classes

Command	Version
Association Command Class*	V2

Association Group Information (AGI) Command Class*	V1
Battery Command Class*	V1
Device Reset Locally Command Class*	V1
Door Lock Command Class*	V2
Firmware Update Meta Data Command Class*	V4
Language Command Class*	V1
Manufacturer Specific Command Class*	V2
Notification Command Class*	V8
Power Level Command Class*	V1
Security 0 Command Class	V1
Security 2 Command Class	V1
Supervision Command Class	V1
Time Command Class	V1
Time Parameters Command Class*	V1
Transport Service Command Class	V2
User Code Command Class*	V1
Version Command Class*	V3
Z-Wave Plus Info Command Class	V2

* **Command Class Requires Security S0/S2**

Command Class Door Lock, Version 2

Z-Wave Plus locks only support 2 door lock modes: Door Secured (0xFF) and Door Unsecured (0x00)

Door locks do not support timed operation from the door lock command class.

Command Class User Code, Version 1

The door lock will only retain valid user code types (0x00, 0x01). All other values will be ignored.

Door locks support multiple different user status bytes:

User status byte value	Description
0x00	available
0x01	occupied

Association Table

Group ID	Maximum Nodes	Description	Commands
1	5	Lifeline	**Battery Report:** Issued when battery becomes low. **Notification Report:** Issued by Push nodes every time a new event is detected or when a state variable has changed state. **Door Lock Operation Report:** Issued by a node when it has completed a lock/unlock operation initiated locally. **User Code Report:** Issued when a user code has changes. **Device Reset locally notification:** Issued when Factory Reset is performed.

Notifications Table

Type	Event	Alarm Type	Alarm Level	Description
Access Control (0x06)	MANUAL_LOCK_OPERATION (0x01)	0x15	0x01	Manual lock operation
	MANUAL_UNLOCK_OPERATION (0x02)	0x16	0x01	Manual unlock operation
	RF_UNLOCK_OPERATION	0x19	0x01	RF unlock operation

	(0x04)			
	KEYPAD_UNLOCK_OPERATION (0x06)	0x13	User Id	Keypad unlock operation
	LOCK_JAMMED (0x0B)	0x00	0x00	Lock jammed
	ALL_USER_CODES_DEL (0x0C)	0x00	0x00	All user codes deleted
	SINGLE_USER_CODE_DEL (0x0D)	0x21	User Id	Single user code deleted
	NEW_USER_CODE_ADD (0x0E)	0x70	User Id	New user code added
	NEW_USER_CODE_NOT_ADD_DUPLICATE_CODE (0x0F)	0x00	User Id	New user code not added due to duplicate code (update master code over Z-Wave)
	MANUALLY_ENTER_USER_ACCESS_CODE_EXCEEDS_CODE_LIMIT (0x13)	0x00	0x00	Manually enter user access code exceeds code limit(Continuous error 10 times)

Z-Wave DSK Location

If both the DSK representation on the product and any DSK provided in the product packaging were to fade, rub off, or be lost, the device would not be able to be added to a Z-Wave network.

You can find the QR code on back side of module.

You may also find the QR Code and DSK on individual package of each module.