

OPERATING MANUAL

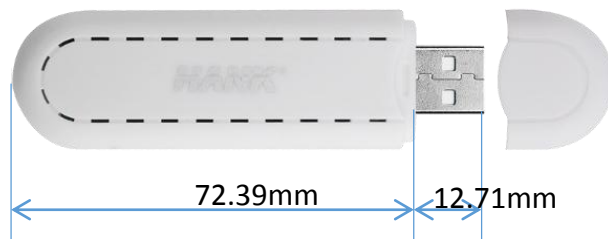
STICK

HKZW-STICK - V1.0

The Stick is a USB v2.0 full speed low power CDC-ACM compliant Z-Wave adapter in a thumb drive form factor. The Stick can act as a Z-Wave Controller when it's connected to a host like PC, MAC or Gateway (some in the market) etc. With a certain program installed on the PC, it can add or remove devices in or from a network.

I . GENERAL INFORMATION ABOUT STICK

1. Product layout



2. Specifications

Power supply:

DC 4.75~5.25V

Storage environment:	-20°C~60°C 0%~80%
Operational temperature:	-10°C~40°C
Radio protocol:	Z-Wave Plus
Radio frequency:	868.42 MHz (EU) 908.42 MHz (US) 921.42 MHz (ANZ)
Range:	More than 150m outdoors About 40m indoors (depending on building materials)
Dimensions:	90*25*11mm

II. INSTALLATION

The stick can act as a secondary controller within an existing Z-Wave network after the terminal program being installed. You can also use the stick to make a new Z-Wave network. As the device exports a USB CDC/ACM class compliant interface, it appears as a serial port, reusing existing standard drivers on most popular PC operating systems. As such there is no vendor driver required.

- Windows 2000/XP/Vista/7/8 32 & 64 bit
 UZB.INF & UZB.CAT are provided in the Z-Wave SDK that reuses the standard Windows usbser.sys or usbser64.sys driver. The device appears in the Device Manager under the Ports section, and is accessible through the Windows CreateFile API by applications as “\\.\COMxxx” where xxx is the COM Port number assigned by the OS.
- Linux kernel 2.6.24+
 The device appears as “/dev/ttyACMxx” where xxx is the tty number assigned by the OS.
- MAC OS X 6.4
 The device appears as “/dev/tty.usbmodemxxx” where xxx is the tty number assigned by the OS.

III. INDICATOR

- The LED indicator on the Stick will keep being on when it's successfully connected to the host.
- The LED Indicator will blink once when the stick is sending a Z-Wave command.

IV. INCLUSION AND EXCLUSION / LEARN MODE

- Stick can add or remove any Z-Wave devices.
- Plug the stick into the PC's USB port, start PC Controller and then it can add or remove Z-Wave devices.

V. ASSOCIATION COMMAND

Grouping Identifier	Max Nodes	Send Commands
Group 1	0xE8	

VI. Factory Default Reset

It happens automatically when the device is excluded.

VII .Security features

Default node info frame:

COMMAND_CLASS_ZWAVEPLUS_INFO	V2
COMMAND_CLASS_SECURITY	V1
COMMAND_CLASS_SECURITY_2	V1
COMMAND_CLASS_TRANSPORT_SERVICE	V2
COMMAND_CLASS_VERSION	V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC	V2
COMMAND_CLASS_POWERLEVEL	V1
COMMAND_CLASS_APPLICATION_STATUS	V1
COMMAND_CLASS_ASSOCIATION	V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO	V1
COMMAND_CLASS_CONFIGURATION	V1
COMMAND_CLASS_CRC_16_ENCAP	V1
COMMAND_CLASS_SUPERVISION	V2
COMMAND_CLASS_INCLUSION_CONTROLLER	V1

The NIF can be modified in PC Controller.