



## ZW1505 Z-Wave Plus Power Strip Manual

### Federal Communications Commission (FCC) Statement

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This 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.

NOTE: 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 interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

### IC Caution:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### DECLARATION DE CONFORMITE D'INDUSTRIE CANADA

Ce périphérique a été testé et reconnu conforme aux limites spécifiées dans RSS-210.

Son utilisation est soumise aux deux conditions suivantes :

- (1) il ne doit pas provoquer d'interférences gênantes et
- (2) il doit tolérer les interférences reçues, notamment celles susceptibles d'en perturber le fonctionnement.

## WARRANTY

Show Home Products warrants this product to be free from manufacturing defects for a period of two years from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product.

This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above limitations may not apply to you.

This warranty gives you specific rights, and you may also have other rights which vary from state to state. If the unit should prove defective within the warranty period.

## SPECIFICATIONS

Model: ZW1505

Power: 120 VAC, 60 Hz.

Signal (Frequency): 908.42 MHz.

Maximum load for outlet 15A, 1200W Resistive

Maximum load for the Z-Wave controlled outlet:

600W Incandescent, ½ HP Motor or 1200W Resistive

Range: Up to 100 feet line of sight between the Wireless Controller and the closest Z-Wave receiver module.

Operating Temperature Range: 32-104° F (0-40° C)

For Outdoor use

Specifications subject to change without notice due to continuing product improvement

Website: [www.nie-tech.com](http://www.nie-tech.com)

## WARNING

RISK OF FIRE

RISK OF ELECTRICAL SHOCK

RISK OF BURNS

CONTROLLING APPLIANCES:

EXERCISE EXTREME CAUTION WHEN USING Z-WAVE DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-WAVE DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE, ALSO AN UNINTENTIONAL ACTIVATION MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-WAVE DEVICES MAY AUTOMATICALLY BE POWERED ON DUE TO TIMED EVENT PROGRAMMING. DEPENDING UPON THE APPLIANCE, THESE UNATTENDED OR UNINTENTIONAL OPERATIONS COULD POSSIBLY RESULT IN A HAZARDOUS CONDITION. FOR THESE REASONS, WE RECOMMEND DO NOT RETURN THIS PRODUCT TO THE STORE THE FOLLOWING:

DO NOT USE Z-WAVE DEVICES TO CONTROL ELECTRIC HEATERS OR ANY OTHER APPLIANCES WHICH MAY PRESENT A HAZARDOUS CONDITION DUE TO UNATTENDED OR UNINTENTIONAL OR AUTOMATIC POWER ON CONTROL.



ZW1505 Z-Wave Plus Power Strip

## Introduction:

The ZW1505 is a Z-Wave enabled device and is fully compatible with any Z-Wave Plus enabled network.

Each module is designed to act as a repeater, which will re-transmit a radio frequency (RF) signal by routing the signal around obstacles and radio dead spots to ensure that the signal is received at its intended destination.

ZW30 is a security enabled Z-Wave plus device. A security Enabled Z-Wave Plus Controller must be used in order to fully utilize the product.

## Key Features:

- Remote ON/OFF control via the Z-Wave controller
- Manual ON/OFF control with the front panel push button
- Support Association Group and Auto Report switch status
- Support USB charging report
- Support firmware upgrades via Over-the-air (need Gateways support)

## Key function description

- Function 1: Press the button to turn the output ON or OFF
- Function 2: Press the button three times quickly to ADD and REMOVE
- Function 3: Press the button twice quickly and then press and hold the button 10S.device will reset
- Function 4: Press the button three quickly and then press and hold the button 10S.change Parameter 26 value,
- Function 5: Press the button six times quickly,change Parameter 27 value.

## USB charging report

- Endpoint 6: USB Charging output current, send basic report(0xFF)
- Endpoint 7: USB is not Charging , send basic report(0x00)

## Z-Wave Remote Control

ADD or Remove the ZW1505 from the existing Z-Wave home control network with your primary controller.

---Refer to your primary controller instructions to process the inclusion / exclusion setup procedure.

---When prompted by your primary controller, click the Up or Down button six times in one second.

Include ZW1505 to/from a Z-Wave Gateway with supporting Security.The ZW1505 can support the Primary Controller that implemented the security !

Notice: Including a node ID allocated by Z-WaveTM Controller means "Add" or "Inclusion". Excluding a node ID allocated by Z-WaveTM Controller means "Remove" or "Exclusion".

## z-wave protocol Command Class Node Info

COMMAND\_CLASS\_ZWAVEPLUS\_INFO,  
COMMAND\_CLASS\_SWITCH\_BINARY,  
COMMAND\_CLASS\_ASSOCIATION,  
COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V2,  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO,  
COMMAND\_CLASS\_TRANSPORT\_SERVICE\_V2,  
COMMAND\_CLASS\_VERSION,  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC,  
COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY,  
COMMAND\_CLASS\_POWERLEVEL,  
COMMAND\_CLASS\_CONFIGURATION,  
COMMAND\_CLASS\_NOTIFICATION\_V8,  
COMMAND\_CLASS\_METER\_V4,  
COMMAND\_CLASS\_SECURITY\_2,  
COMMAND\_CLASS\_MULTI\_CHANNEL\_V4,  
COMMAND\_CLASS\_SUPERVISION  
COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD\_V2

## The Below listed Command Class are all supported the Security S2

COMMAND\_CLASS\_VERSION,  
COMMAND\_CLASS\_SWITCH\_BINARY,  
COMMAND\_CLASS\_ASSOCIATION,  
COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V2,  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO,  
COMMAND\_CLASS\_MULTI\_CHANNEL\_V3,  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC,  
COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY,  
COMMAND\_CLASS\_POWERLEVEL,  
COMMAND\_CLASS\_CONFIGURATION,  
COMMAND\_CLASS\_NOTIFICATION\_V8,  
COMMAND\_CLASS\_METER\_V4,  
COMMAND\_CLASS\_SUPERVISION  
COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD\_V2

## ZW1505 protocol Endpoint 1,Endpoint 2,Endpoint 3,Endpoint 4,Endpoint 5,

### Full Command Class Node Info

COMMAND\_CLASS\_ZWAVEPLUS\_INFO,  
COMMAND\_CLASS\_ASSOCIATION,  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO,  
COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V2,  
COMMAND\_CLASS\_SWITCH\_BINARY,  
COMMAND\_CLASS\_METER\_V4,  
COMMAND\_CLASS\_SUPERVISION,  
COMMAND\_CLASS\_SECURITY\_2

The Below listed Command Class are all supported the Security S2

COMMAND\_CLASS\_ASSOCIATION,  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO,  
COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V2,  
COMMAND\_CLASS\_SWITCH\_BINARY,  
COMMAND\_CLASS\_METER\_V4,  
COMMAND\_CLASS\_SUPERVISION

## ZW1505 protocol Endpoint 6,Endpoint 7,

### Full Command Class Node Info

COMMAND\_CLASS\_ZWAVEPLUS\_INFO,  
COMMAND\_CLASS\_SWITCH\_BINARY,  
COMMAND\_CLASS\_SUPERVISION,  
COMMAND\_CLASS\_SECURITY\_2

The Below listed Command Class are all supported the Security S2

COMMAND\_CLASS\_ASSOCIATION,  
COMMAND\_CLASS\_SWITCH\_BINARY,  
COMMAND\_CLASS\_SUPERVISION

## Z-Wave Configuration Parameters

You may use the below configuration parameters to change settings of the corresponding functionality.

1 : Restores state after power failure

Paramter No: 1(0x01)	Size:1 Byte	Value: 00 (default)	The state before a power outage.
		Value: 01	Output ON.
		Value: 02	Output OFF.

2 : Power Wattage Report Value Threshold(Wattage) Value Scope :0----65535W

Paramter No: 2(0x02)	Size:2 Byte	Value: xx xx (Default 10W)
		Value:00 00 Disabled

3 : Power Wattage Report Frequency (Timer) Value Scope :5----2678400S

Paramter No: 3(0x03)	Size:4 Byte	Value: xx xx xx xx (Default 30S)
		Value:00 00 00 00 Disabled

4 : Energy (kWh) Report Frequency (Timer) Value Scope :5----2678400S

Paramter No: 4(0x04)	Size:4 Byte	Value: xx xx xx xx (Default 300S)
		Value:00 00 00 00 Disabled

5 : Energy (kWh) Report Frequency (Wattage) Value Scope :0----1500W

Paramter No: 5(0x05)	Size:2 Byte	Value: xx xx (Default 1500W)
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6: Endpoint1 Enable Auto Turn-OFF Timer

Paramter No: 6(0x06)	Size:1 Byte	Value=0 Auto Turn-OFF Timer Disabled (default);
		Value=1 Auto Turn-OFF Timer Enabled

7 : Endpoint1 Count Down Configuration(Turn off the output by time )

Paramter No: 7(0x07)	Size:2 Byte	Value: xx xx Turn off Output
		Value Scope :1----65535Minutes (default:60M)

8: Endpoint1 Enable Auto Turn-ON Timer

Paramter No: 8(0x08)	Size:1 Byte	Value=0 Auto Turn-ON Timer Disabled (default);
		Value=1 Auto Turn-ON Timer Enabled

9 : Endpoint1 Count Down Configuration(Turn on the output by time )

Paramter No: 9(0x09)	Size:2 Byte	Value: xx xx Turn off Output
		Value Scope :1----65535Minutes (default:60M)

10:Endpoint2 Enable Auto Turn-OFF Timer

Paramter No: 10(0x0A)	Size:1 Byte	Value=0 Auto Turn-OFF Timer Disabled (default);
		Value=1 Auto Turn-OFF Timer Enabled

11:Endpoint2 Count Down Configuration(Turn off the output by time )

Paramter No: 11(0x0B)	Size:2 Byte	Value: xx xx Turn off Output
		Value Scope :1----65535Minutes (default:60M)

12:Endpoint2 Enable Auto Turn-ON Timer

Paramter No: 12(0x0C)	Size:1 Byte	Value=0 Auto Turn-ON Timer Disabled (default);
		Value=1 Auto Turn-ON Timer Enabled

13:Endpoint2 Count Down Configuration(Turn on the output by time )

Paramter No: 13(0x0D)	Size:2 Byte	Value: xx xx Turn off Output
		Value Scope :1----65535Minutes (default:60M)

14:Endpoint3 Enable Auto Turn-OFF Timer  
 Paramter No: 14(0x0E) Size:1 Byte Value=0 Auto Turn-OFF Timer Disabled (default);  
 Value=1 Auto Turn-OFF Timer Enabled

15:Endpoint3 Count Down Configuration(Turn off the output by time )  
 Paramter No: 15(0x0F) Size:2 Byte Value: xx xx Turn off Output  
 Value Scope :1----65535Minutes (default:60M)

16:Endpoint3 Enable Auto Turn-ON Timer  
 Paramter No: 16(0x10) Size:1 Byte Value=0 Auto Turn-ON Timer Disabled (default);  
 Value=1 Auto Turn-ON Timer Enabled

17:Endpoint3 Count Down Configuration(Turn on the output by time )  
 Paramter No: 17(0x11) Size:2 Byte Value: xx xx Turn off Output  
 Value Scope :1----65535Minutes (default:60M)

18:Endpoint4 Enable Auto Turn-OFF Timer  
 Paramter No: 18(0x12) Size:1 Byte Value=0 Auto Turn-OFF Timer Disabled (default);  
 Value=1 Auto Turn-OFF Timer Enabled

19:Endpoint4 Count Down Configuration(Turn off the output by time )  
 Paramter No: 19(0x13) Size:2 Byte Value: xx xx Turn off Output  
 Value Scope :1----65535Minutes (default:60M)

20:Endpoint4 Enable Auto Turn-ON Timer  
 Paramter No: 20(0x14) Size:1 Byte Value=0 Auto Turn-ON Timer Disabled (default);  
 Value=1 Auto Turn-ON Timer Enabled

21:Endpoint4 Count Down Configuration(Turn on the output by time )  
 Paramter No: 21(0x15) Size:2 Byte Value: xx xx Turn off Output  
 Value Scope :1----65535Minutes (default:60M)

22:Endpoint5 Enable Auto Turn-OFF Timer  
 Paramter No: 22(0x16) Size:1 Byte Value=0 Auto Turn-OFF Timer Disabled (default);  
 Value=1 Auto Turn-OFF Timer Enabled

23:Endpoint5 Count Down Configuration(Turn off the output by time )  
 Paramter No: 23(0x17) Size:2 Byte Value: xx xx Turn off Output  
 Value Scope :1----65535Minutes (default:60M)

24:Endpoint5 Enable Auto Turn-ON Timer  
 Paramter No: 24(0x18) Size:1 Byte Value=0 Auto Turn-ON Timer Disabled (default);  
 Value=1 Auto Turn-ON Timer Enabled

25:Endpoint5 Count Down Configuration(Turn on the output by time )  
 Paramter No: 25(0x19) Size:2 Byte Value: xx xx Turn off Output  
 Value Scope :1----65535Minutes (default:60M)

26:Manual Control  
 Paramter No: 26(0x1A) Size:1 Byte Value=0 Manual Control Disabled  
 Value=1 Manual Control Enabled (default);

27:Status LED Configuration  
 Paramter No: 27(0x1B) Size:1 Byte Value: 00 Output ON,Led ON.  
 Value: 01(default) Output ON,Led OFF.  
 Value: 02 Always OFF

## Support for Association Groups

ZW1505 supports 6 association groups. A maximum of 5 node ID's (nonmulti-channel devices) can be assigned to these association groups.

Root Device	Endpoint1	Endpoint2	Endpoint3	Endpoint4	Endpoint5	Endpoint6	Endpoint7
Group 1:Lifeline	Group 1:Lifeline	Group 1:Lifeline	Group 1:Lifeline	Group 1:Lifeline	Group 1:Lifeline	Group 1:Lifeline	Group 1:Lifeline
Group 2:Basic set From Endpoint1	Group 2:Basic set command						
Group 3:Basic set From Endpoint2		Group 3:Basic set command					
Group 4:Basic set From Endpoint3			Group 4:Basic set command				
Group 5:Basic set From Endpoint4				Group 5:Basic set command			
Group 6:Basic set From Endpoint5					Group 6:Basic set command		

#### Association group\_1:Z-Wave Plus Lifeline

Association group\_1 is default to associate with the primary controller (Gateway/Hub/Controller) for ZW1505 Status change report,

1. ZW1505 will trigger AUTO report function if the Switch status had been changed.
2. When ZW1505 high temperature alarm sends out notifications or releases notifications, ZW1505 will auto report

#### Association group\_2:basic set command

When the output of the ZW1505 Enpoint1 socket is changed, On (0xFF) or Off (0x00). The ZW1505 will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

#### Association group\_3:basic set command

When the output of the ZW1505 Enpoint2 socket is changed, On (0xFF) or Off (0x00). The ZW1505 will automatically send out a related basic command. On (0xFF) or Off (0x00) to its associated group.

#### Association group\_4:basic set command

When the output of the ZW1505 Enpoint3 socket is changed, On (0xFF) or Off (0x00). The ZW1505 will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

#### Association group\_5:basic set command

When the output of the ZW1505 Enpoint4 socket is changed, On (0xFF) or Off (0x00). The ZW1505 will automatically send out a related basic command. On (0xFF) or Off (0x00) to its associated group.

#### Association group\_6:basic set command

When the output of the ZW1505 Enpoint5 socket is changed, On (0xFF) or Off (0x00). The ZW1505 will automatically send out a related basic command. On (0xFF) or Off (0x00) to its associated group.

## Restoring Factory Defaults

ZW1505 is removed from the network and will be restored to the factory setting

All Configuration Parameters values and Association information will be restored to factory default settings and excluded from the network.

Remark : All the setting and data will be permanently deleted.

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