ControlContr	 Product overview Smart Plug is a 2-Wave Switch plugin module specifically used to enable 2-Wave command and control (on/off) of any plug-in tool. It can report wattage consumption or kWh energy usage. This device is a security enabled 2-Wave Plus product that is able to use encrypted 2-Wave Plus messages to communicate to other security enabled 2-Wave Plus products. Smart Plug is also a security 2-Wave device and supports the Over The Air (OTA) feature for the product's firmware upgrade. This device must be used in conjunction with a Security Enabled 2- Wave Controller in order to fully utilize all implemented functions. Package Contents A Sumart Plug A Surp Plug A Coutput switch on/off by manual or z-Wave command; Support S0 and S2 security network; Supporting power meter; Supporting repeater role; Supporting firmware OTA; Supporting Smart Start; 	1. Smart Plug Layout 1.1 Smart Plug Layout Image: State S	3. Function of Action Button: Smart Plug is not in the Z-Wave network: Trigger Description 1. LED will blink in blue for 3 times, and enter Smart Start mode. Add for inclusion(SmartStart) 1. Scan the QR code on your device, and add the device DSK to the main controller. 2. Power on 2. EDD will blink in blue for 3 times, and enter Smart Start. If add Smart Plug for inclusion is successful, the LED will be off. Short press 3. LED will blink in blue for 3 times, Smart Plug sends node info frame. Add for inclusion: Short press LED will blink in blue for 3 times, Smart Plug sends node info frame. Ad for inclusion: 1. Set the Z-Wave network main controller into learning mode. 2. ED will blink in blue for 3 times, and then turn off to indicate that the add for inclusion is successful. LED will blink in blue for 3 times, and then turn off to indicate that the add for inclusion is successful. LED will blink in blue for 3 times, and then turn off to indicate that the add for inclusion is successful. LED will blink in blue for 3 times, and then turn off to indicate that the add for inclusion is successful.	Smart Plug is in the Z-Wave network: Trigger Description Power on LED will indicate load status. Short press Changing the status of Smart Plug's load. once LED will blink in blue for 3 times, Smart Plug sends node info frame. Remove for exclusion: 1.Set the Z-Wave network main controller into removing mode. Short press J.Set Will blink in blue for 3 times, and then start slow flashing to indicate that the remove for exclusion is successful. LED will indicate network status after it is removed from Z-Wave network. Long press Reset Smart Plug to factory Default: Long press LDD will posed up th flash and then LED will keep on for 3 seconds in blue and Smart Plug will send "Device Reset Locally Notification" to the main controller and exclude from the Z-Wave network, this procedure will reset Smart Plug to factory default. 4. Security and non-security features of Smart Plug is and /or other applications. All non-battery operated nodes within the network will act a crepeaters regardless of vendor to increase reliability of the network. Smart Plug 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.
4.2.2 Security device The node info frame supports (S0): COMMAND_CLASS_ZWAVEPULS_INFO_V2 COMMAND_CLASS_SUPERVISION V1 COMMAND_CLASS_SUPERVISION V1 COMMAND_CLASS_SECURITY_2 V1 COMMAND_CLASS_SECURITY_2 V1 COMMAND_CLASS_SECURITY_2 V1 COMMAND_CLASS_WICH_BINARY V1 COMMAND_CLASS_WICH_BINARY V1 COMMAND_CLASS_WICH_BINARY V1 COMMAND_CLASS_SIMICH_BINARY V1 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_WIGTH_BINARY V1 COMMAND_CLASS_SIMICH_BINARY V1 COMMAND_CLASS_FIRMIWARE_UPDATE_NDV3	Security 52 Command Supported Report Frame: COMMAND_CLASS_VERSION_V2 COMMAND_CLASS_SWITCH_BINARY_V1 COMMAND_CLASS_SCENE_ACTUATOR_CONF_V1 COMMAND_CLASS_SCENE_ACTUATOR_CONF_V1 COMMAND_CLASS_SCENE_ACTUATOR_V1 COMMAND_CLASS_SCENE_ACTUATOR_V1 COMMAND_CLASS_SOCIATION_V2 COMMAND_CLASS_DEVICE_RESET_LOCALIY_V1 COMMAND_CLASS_DEVICE_RESET_LOCALIY_V1 COMMAND_CLASS_DEVICE_RESET_LOCALIY_V1 COMMAND_CLASS_DEVICE_RESET_LOCALIY_V1 COMMAND_CLASS_MENURAE_UPDATE_MDV3 COMMAND_CLASS_MENURAE_UPDATE_MDV3 COMMAND_CLASS_MENURAECTUPDATE_MDV3 COMMAND_CLASS_MENURAECTUPDATE_MDV3 COMMAND_CLASS_MENURAECTUPDATE_MDV3 COMMAND_CLASS_MENURAECTUPDATE_MDV3 COMMAND_CLASS_MENURAECTUPDATE_MDV3 COMMAND_CLASS_MENURAECTUPATE_MDV3 MID_CLASS_MENUTATE_MDV3 METENT MIT_MOUNTSMATETED TO TO TO SECOND AND THE MAIN TO THE MAIN COMMAND_CLASS_MENUTATE TO THE MOUNT AND THE MOUNTSMATE PLUG to Factory default. MIT_MOUNTSMATE MUST MAN EXAMPLE ADVARECTUPATE TO A SECONDARY AND THE MOUNTSMATE MUST AND THE MOUNTSMATE MUST AND THE MOUNTSMATE MOUNTSMAT	5. Note for special command 5.1 Association Command The Smart Plug supports only one association group. Grouping identifier Max Nodes Send Command I. Basic Report Quite Command I. Basic Report J. Meter Report J. Meter Report J. Device Reset Locally Notification S.2 Basic Command Smart Plug can send basic report to association device (Group Lifeline) when state of Smart Plug's load change. S.3 Configuration Command Smart Plug offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface. Parameter No. 20 Overload protection Smart Plug keep detecting the load power, once the AC current exceeds 11.5A for more than 5s, smart plug's relay will turn off. 0 - The function is disabled. 1 - Smart Plug does not memorize its state after a power failure. Definit leving does not memorize its state after a power failure. 1 - Smart Plug does not memorize its state after a power failure. 2 - Smart Plug does not memorize its state after a power failure. 2 - Smart Plug does not memorize its state after a power	 O - The function is disabled. Send Basic report. Send Basic report only when Load condition is not changed by Z-WAVE Command. Default setting: 1 Parameter size: 1 [bre] Parameter Size: 1 [bre] Parameter No. 27 Indicator modes After smart plug being included into a Z-Wave network, the RGB LED indicator will indicator the situation of load. O - The indicator light remains the same as the load on/off status. When the load is on, the light is on, and the off is off. I - Within 5 seconds after the operation load, the indicator light is consistent with the load on/off status, and then the off is off. O - The indicator light remains the same as the load on/off status. When the load is on, the light is on, and the off is off. O - The indicator light remains the same as the load on/off status. When the load is on, the light is on, and the off is off. Parameter No. 151 Threshold of power report Power and energy reports settings: Parameter No. 151 Percentage threshold, the smart plug will send meter report to association device (Group Lifeline). Available settings: 0 (00 (0 - 200W) O - The function is disabled. Default setting: 10 (1006) O - The function is disabled. Default setting: 10 (1006) O - The function is disabled. Default setting: 10 (1008) Parameter No. 151 Power report Power report. Available setting: 0 - 100 (0 - 100%) O - The function is disabled. Default setting: 10 (1008) Parameter size: 1 [byte] Para	Default setting: 3600 (3600s) Parameter size: 4 [byte] Parameter No. 172 Energy report frequency The interval of sanding energy report to association device (Group Lifeline). Available setting: 3600-2678400 (3600 - 2678400s) 0 - The function is disabled. Default setting: 7200 (7200s) Parameter Size: 4 [byte] Parameter No. 173 Voltage report frequency The interval of sanding voltage report to association device (Group Lifeline). Available setting: 3600-2678400 (3600 - 2678400s) 0 - The function is disabled. Default setting: 3600-2678400 (3600 - 2678400s) 0 - The function is disabled. Default setting: 3600-2678400 (3600 - 2678400s) 0 - The function is disabled. Default setting: 3600-2678400 (3600 - 2678400s) 0 - The function is disabled. Default setting: 3600-2678400 (3600 - 2678400s) 0 - The function is disabled. Default setting: 10 (disabled) Parameter No. 254 Enable/disable the configuration command Lock/unlock all configuration parameters. 0 - Unlock. 1 - Lock. Default setting: 0 Parameter size: 1[byte]

4.1 The way to add for inclusion is different
4.1.1 Add for inclusion (non-security and security):
1)Connect the power supply.
Set the Z-Wave network main controller into learning mode.
 Triple click the Z-button, the LED indicator will be flashing 3 times in Blue.
 Smart Plug should be recognized and included into the Z-Wave network.
4.1.2 Add for inclusion (SmartStart):
 Scan the QR code on your device, and add the device DSK to the main controller.
2) Power on Smart Plug.
3) LED will blink in blue for 3 times, and enter Smart Start. If add Smart Plug for inclusion is successful, the LED will be off. Then Z- Wave PC Controller interface will display the corresponding device information.
4.2 Node info frame is different
4.2.1 Non-security device
The node info frame supports:
COMMAND_CLASS_ZWAVEPLUS_INFO V2
COMMAND_CLASS_SWITCH_BINARY V1
COMMAND_CLASS_METER V3
COMMAND_CLASS_TRANSPORT_SERVICE V2
COMMAND_CLASS_SUPERVISION V1
COMMAND_CLASS_SCENE_ACTUATOR_CONF V1
COMMAND_CLASS_SCENE_ACTIVATION V1
COMMAND_CLASS_CONFIGURATION V1
COMMAND_CLASS_ASSOCIATION_GRP_INFO V1
COMMAND_CLASS_ASSOCIATION V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC V2
COMMAND_CLASS_VERSION V2
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V3
COMMAND_CLASS_POWERLEVEL V1
COMMAND_CLASS_SECURITY V1
COMMAND_CLASS_SECURITY_2 V1
COMMAND_CLASS_DEVICE_RESET_LOCALLY V1



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