

# Release Notes

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## SMART-IOT-KIT v5.12

May 2018

## Introduction

*This document provides firmware update information for SMART-INTEGRATION-KIT devices, in particular the most popular models: SMART-SENSOR-ETH-POE-TH-BASIC, SMART-SENSOR-ETH-POE-TH-FILTER, SMART-SENSOR-ETH-POE-xT-IP67.*

## Support

*For more information on latest software releases, upgrade procedures, support, contact with your distributor and/or partner or visit [www.astrozi.com](http://www.astrozi.com) and/or email to [support@astrozi.com](mailto:support@astrozi.com).*

## Update procedure

*Software version 5.12 brings improvements, improvements and new features. You are requested to thoroughly familiarize with the software update procedure.*

### WARNING !!!

After the software update is done, in most cases, it is necessary to clear the browser cache where the device configuration was performed.

### Assignments of devices models to firmware version:

<i>Device model:</i>	<i>Filename:</i>
SMART-SENSOR-ETH-POE-TH-BASIC	SMART- IOT-KIT-ETH-POE-TH-BASE_FW_ALL.BIN
SMART-SENSOR-ETH-POE-TH-FILTER	SMART- IOT-KIT-ETH-POE-TH-BASE_FW_ALL.BIN
SMART-SENSOR-ETH-POE-xT-IP67 (where x = 1,2,4 )	SMART- IOT-KIT-ETH-POE-TH-EXPAND_FW_ALL.BIN

## Update

To update firmware of the device, please do the following steps:

1. Extract the file with the .BIN extension to a temporary directory.
2. Select the uncompressed file using the "Choose file" option in the firmware section of the Manage -> Maintenance menu.
3. Start the update procedure by pressing the green arrow button.
4. The update lasts for about 5 minutes.
5. After the update procedure is complete, the device will automatically restart.

## New functionality / improvements

This section shows the major improvements in each software release.

### Version 5.12

- no new functionality

### Version 5.11

- no new functionality

### Version 5.10

- no release

### Version 5.09

- no release

### Version 5.08

- no release

### Version 5.07

- aggregation module
  - added support for astozi leakage probes
  - added support for expansion module for thermocouple probes
- system management module
  - enhanced TCP / IP stack support
  - increasing the waiting time to retrieve an address from the DHCP server from 5 to 30 seconds
  - if you select "Reset to defaults with network settings" from the panel or press the reset button on your device, the IP address will be obtained from DHCP server and in case of failure the default address is 192.168.0.50

### Version 5.06

- no release

### Version 5.05

- no new functionality

### Version 5.04

- no release

### Version 5.03

- no release

### Version 5.02

- no release

### Version 5.01

- no release

### Version 5.00

- aggregation module

- dynamic calculation of dew point and absolute humidity

## Version 4.69

- no new functionality

## Version 4.68

- integration module
  - support for sharing data via CoAP protocol

## Version 4.67

- no release

## Version 4.66

- no new functionality

## Version 4.65

- added possibility to download MIB file via web interface

## Version 4.64

- no new functionality

## Version 4.63

- system management module
  - added the Failover IP option - if the DHCP server does not work, the device uses the last saved static IP address

## Version 4.62

- no new functionality

## Version 4.61

- no new functionality

## Version 4.60

- integration module
  - added support for the "Aggregated history" functionality available on devices with SMART-LOGGER software

## Version 4.51

- aggregation module
  - added support for SMART-SENSOR-EXT-PROBE-TH-FILTER sensor

## Version 4.50

- integration module
  - support for sharing data via SNMP protocol
  - support for sharing data via MQTT protocol
  - support for sharing data via JSON protocol
  - support for sharing data via CSV file
- system management module
  - configuration export / import
  - there is an alert after reboot the device if the time has not been correctly set

# SMART-IOT-KIT

- logs are daily rotated
- support for device management via SNMP
- Support for device management via MQTT
- visualization module
  - improved layout
    - new menu layout
  - support for graphs for dynamically added sensors
  - device status
    - percentage of usage of internal memory
- aggregation module
  - support for 1Wire temperature sensors
  - possibility to change sensor names
  - possibility to change the frequency of saving historical data

## Version 4.04

- add export log file and debug file

## Version 4.02

- adding time zone support

## Version 4.00

- split firmware into two branches, one branch for standalone devices and one for devices communicating with systemONE solution
- default configuration enable data logger mode
- preview historical data via web interface

## Version 3.16

- added option to restore factory settings without changing network configuration

## Version 3.14

- no new functionality

## Version 3.13

- the uptime of the device is displayed

## Version 3.12

- no new functionality

## Version 3.11

- no new functionality

## Version 3.10

- no new functionality

## Version 3.09

- extension of functionality of detection of thresholds exceeded

## Version 3.08

- no new functionality

## Version 3.07

- no new functionality

## Version 3.06

- information by LED indicator that the assumed thresholds are exceeded

## Version 3.05

- adding sending a local address to DCMS Gateway

## Version 3.04

- no new functionality

## Version 3.03

- no new functionality

## Version 3.02

- no new functionality

## Version 3.01

- added support for Responsive Web Design (RWD) technology for the web panel

## Version 3.00

- support for sharing data via SNMP protocol
- added the support for AUTH PLAIN authorizations when sending email

## Version 2.12

- added support for temperatures below zero

## Version 2.11

- no new functionality

## Bug fixes

This section shows the most important bug fixes in each version of the firmware.

### Version 5.12

- system management module
  - critical fix in the use of DHCP failover mode

### Version 5.11

- system management module
  - fixes in DHCP protocol support

### Version 5.10

- no release

### Version 5.09

- no release

### Version 5.08

- no release

### Version 5.07

- no fixes

### Version 5.06

- no release

### Version 5.05

- fixes in saving configuration
- fixes in monitoring Ethernet line status
- patches in the initialization of probes

### Version 5.04

- no release

### Version 5.03

- no release

### Version 5.02

- no release

### Version 5.01

- no release

### Version 5.00

- fixes in CoAP support
- minor fixes in the web interface

## Version 4.69

- fixes in CoAP support

## Version 4.68

- minor fixes in the web interface

## Version 4.67

- no release

## Version 4.66

- minor fixes in the web interface ( graphs )

## Version 4.65

- fixes in SNMP support

## Version 4.64

- fixes in NTP support

## Version 4.63

- fixes in the function of configuration restore

## Version 4.62

- fixes in the function of settings restore

## Version 4.61

- improved support for dynamic sensor detection
- fixes in the web interface

## Version 4.60

- fixes in support of SMART-SENSOR-EXT-PROBE-TH-FILTER sensors

## Version 4.51

- minor fixes in the web interface

## Version 4.50

- management module
  - added "Are you sure" messages for critical operations
  - disabled logging of messages type "Trying to resolve"
  - the default timezone is set to Europe/Warsaw
- visualization module
  - added the blocking an interface when an operation is performing
  - acceleration of graphs generation
- aggregation module
  - saving the historical data only when NTP is running or the time has been manually set

## Version 4.05

- correct time zone support in graphs
- minor fixes in the web interface



## Version 4.04

- improved communication with NTP server

## Version 4.03

- minor fixes in the web interface

## Version 4.02

- fixes when displaying measurement history on Firefox and Internet Explorer browsers

## Version 4.01

- fixes when displaying software update status

## Version 4.00

- split firmware into two branches, one branch for standalone devices and one for devices communicating with systemONE solution

## Version 3.16

- fixes in input parameters validation
- DNS queries fixes

## Version 3.15

- fixes in displaying dashboard on mobile devices
- patches for communication between dcms mote and dcms gateway

## Version 3.14

- patches for communication between dcms mote and dcms gateway

## Version 3.13

- new web interface layout
- patches in the www interface

## Version 3.12

- reducing delays in measurements
- changes to the OID tree for SNMP to ensure compatibility with Axence nVision software
- fixes in MIB file

## Version 3.11

- fixes in configuration of threshold values
- minor fixes in the web interface

## Version 3.10

- patches in SNMP agent

## Version 3.09

- fixes in displaying graphs
- patches for displaying dashboard on mobile devices

## Version 3.08

- fixes for the measurement of temperatures below zero

# SMART-IOT-KIT

## Version 3.07

- patches for communication between dcms mote and dcms gateway

## Version 3.05

- no fixes

## Version 3.04

- patches for communication between dcms mote and dcms gateway

## Version 3.03

- validation of input data in email configuration

## Version 3.02

- changing the firmware upgrade procedure
- improved handling of the TCP / IP stack

## Version 3.01

- displaying the information about running synchronization procedure with dcms gateway

## Version 3.00

- improved graph display when no time synchronization with NTP server or manual time is set
- minor fixes in the web interface

## Version 2.12

- improved software update procedure (support for weak and unstable internet connections)
- added support for temperatures below zero

## Version 2.11

- improved silent mode operation - sensor failure is always signaled by a buzzer