



# C E R T I F I C A T E

**Certificate registration number:** G3.1808.226.1.D

**Certificate holder:** STMicroelectronics

**Platform designation:** ST8500,  
Hardware version EVALMODSTST8500-1, Firmware version 4.3.6 - v12713548 - r0.14

**Certification date:** August 13<sup>th</sup>, 2018

This certificate indicates the above mentioned platform successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017) plus the changes listed in an annex to this certificate. The optional feature coherent mode of the G3-PLC protocol is also covered by this certification.

The certificate applies to certification profile CENELEC B and the device was configured as a PAN-Device.

Test cases have been performed as described in the test report referred to below. This certificate is granted on account of tests conducted by Laboratoire des Applications Numériques (LAN) in Tauxigny, France in August 2018. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Conformance and interoperability testing according to the test specification referenced by the test report	Laboratoire des Applications Numériques (LAN)	LAN18AF051

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. This certificate is valid from August 13<sup>th</sup>, 2018.

The certificate is only applicable to the platform described above and permits the use of the G3-PLC™ logo as laid down in the G3-PLC logo license agreement.

This certificate does not imply assessment of the production. This certificate shall not be defined, or used as a guarantee covering quality of a product which includes G3-PLC. The liability of the Alliance and the test laboratory or any of her representatives is excluded for any damages or losses of the certified company.

Paris, August 13<sup>th</sup>, 2018

For the G3-PLC Alliance:

  
**Bernard Lassus**  
Chairman

  
**Madeleine Francillard**  
Chair Certification Program

**G3-PLC**  
Alliance



## Annex 1: Reference Version for Certification

- The reference version for this certification is ITU-T G.9903 (08-2017)
- + CCTT #210: Number of tones per sub-band for CENELEC B
  - + CCTT #211: Clarification and corrections for CENELEC-B band

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## Annex 2: Protocol Implementation Conformance Statement (PICS)

### Feature implementation statement

Name	Value	Description
BAND_PLAN	CENELEC B	Indicate the band-plan supported by the device.
FEATURE_PAN_COORDINATOR	FALSE	Indicate if the device is a PAN-Coordinator (true) or a normal device (false).
FEATURE_COHERENT_MODULATION	TRUE	Indicate if coherent modulation is supported.
FEATURE_EAP_SERVER	FALSE	Indicate if an EAP-PASK server is implemented by the DUT. Apply only if FEATURE_PAN_COORDINATOR = true.
FEATURE_D8PSK_MODULATION	TRUE	True / False
FEATURE_ROUTING	TRUE	Indicate if the routing is implemented by the IUT.
FEATURE_SECURITY	F1	Indicate the security implemented by the device. Possible values are: F1, F2.
FEATURE_ACTIVE_SCAN	TRUE	Indicate if the active scan process is done by the IUT after power-up.
FEATURE_PREAMBLE_COEXISTENCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT.

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## Annex 3: Copy of test report cover sheet



**G3-PLC Certification Test Report**  
 STMICROELECTRONICS ST8500 HW:EVALMODST8500-1 FW: 4.3.6 - v12713548 - r0.14  
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**G3-PLC Alliance**  
**G3-PLC Platform Certification Test Report**

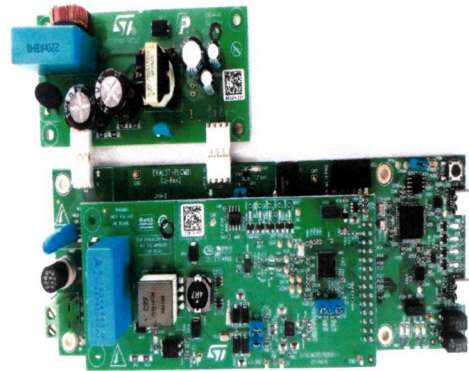
Vendor Name **STMICROELECTRONICS**  
 Model Name **ST8500**  
 Serial N° **CC013-421**  
 HW version **EVALMODST8500-1**  
 FW version **4.3.6 - v12713548 - r0.14**

Test Report # **TR\_LAN18AF051 Ed.00**  
 Date **August 9, 2018**

CONF Tests Specification **version 0.27. 08/04/2018**  
 CONF Tests Suite **version 2.7p1p2. 04/2018**  
 IOT Tests Specification **version 0.12. 08/04/2018**  
 IOT Tests Suite **version 2.4. 04/2018**

Test Tool **version 2.0**  
 Tester Modem **version 2.0**  
 Certification Test Procedures **version 1.12. 08/04/2018**

Certification Profile **CENELEC B**  
 Role **PAN Device**  
 Overall Verdict **PASS**



Initiation	Date	Description of modification	Ed.
Omar DIOUF	August 9, 2018	Creation	00

Name	Realised by	Checked by	Approved by
	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	August 9, 2018	August 9, 2018	August 9, 2018
Sign			

The current report and the test results produced in this current are given for information only and must not be relied on by any third person for any reason.  
 This report contains an assessment of the apparatus carried out on samples submitted to the laboratory. The results in this report relate only to the items tested and were obtained in the period between the initial receipt of samples and the issue of the report. It should be noted that technical hardware or software modifications on the apparatus may impact the results reported in this document.

*Handwritten initials/signature*



## Annex 4: Additional details of the certified platform

<b>Platform model name:</b>	ST8500
<b>Platform hardware version:</b>	EVALMODSTST8500-1
<b>Platform firmware version:</b>	4.3.6 - v12713548 - r0.14
<b>Exact part number of all the chips running G3-PLC stack in the certified platform:</b>	ST8500
<b>What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:</b>	PHY, MAC and 6LowPAN
<b>Hardware version of this chip:</b>	revBB
<b>Software version running on this chip:</b>	4.3.6 v12713548 - r0.14
<b>Internal CPU frequency:</b>	100MHz for Cortex core and 266 MHz for RTE

*JK*