

Certificate registration number: G3.1910.320.1.D4

Certificate holder: STMicroelectronics

Platform designation: ST8500,

Hardware version EVALMODSTST8500-1, Firmware version 4.4.9 - v1390B5EC - r1.6

Certification date: October 3rd, 2019

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 September 2019. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Conformance, interoperability and performance testing according to the test specification referenced by the test report	Laboratoire des Applications Numériques (LAN)	LAN19AF0069

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. The Protocol Implementation Conformance Statement in the Annex includes the PICS related to performance and is an integral part of this certificate. This certificate is valid from October 3rd, 2019.

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, October 3rd, 2019

For the G3-PLC Alliance:





Madeleine Francillard Chair Certification Program

Authenticity of this certificate can be verified at http://g3-plc.com/content/g3-plc-certified-products

G3-PLC

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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)

G3-PLC CEN B

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_MODULAT	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_COEXISTE NCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT.	
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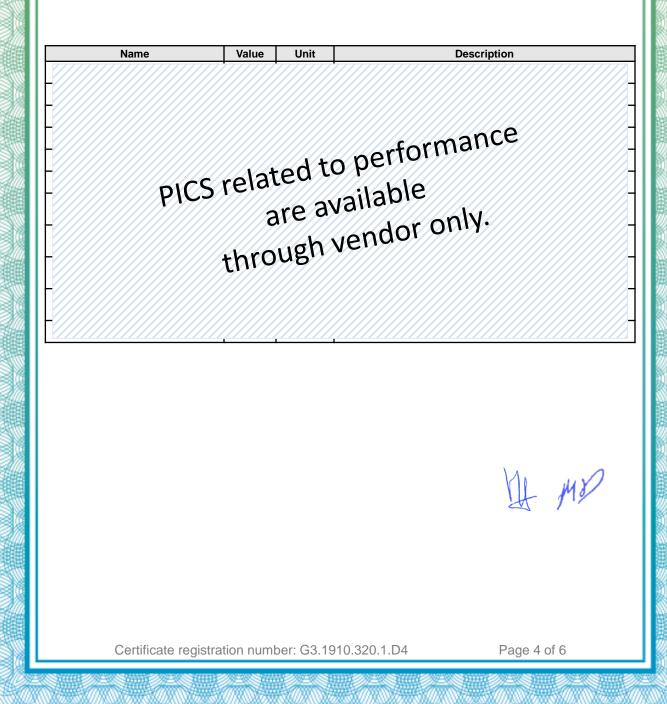
Annex 2: Protocol Implementation Conformance Statement (PICS)

G3-PLC CENB

CERTIFIED

PICS related to performance

The device tested is a G3-PLC CENELEC B platform. Operating voltage applied for certification testing was 230V / 50Hz.



Annex 3: Copy of test report cover sheet

G3-PLC

Your digital lab

G3-PLC Certification Test Report STMICROELECTRONICS ST8500 HW:EVALMODSTST8500-1 FW: 4.4.9 - v1390B5EC - r1.6 LAN19AF0069 Ed.00 October 1, 2019 Page 1/45

CERTIFIED

CEN B

G3-PLC Alliance **G3-PLC Platform Certification Test Report**

Vendor Name

Model Name Serial N° HW version FW version

Test Report #

Date

EVALMODSTST8500-1 4.4.9 - v1390B5EC - r1.6

ST8500

CL041

TR LAN19AF0069 Ed.00 October 1, 2019

CONF Tests Specification 03/12/2018 version 0.30. **CONF** Tests Suite version 2.9.p1. 09/2019 28/12/2018 IOT Tests Specification version 0.13. IOT Tests Suite version 2.6.p1. 09/2019 PERF Tests Specification version 0.27. 05/03/2019 PERF Tests Suite version 2.9.p1. 09/2019 Test Tool version 2.3 Tester Modem version 2.0 Certification Test Procedures 21/08/2019 version 1.14

STMICROELECTRONICS

CENELEC B **Certification Profile** PAND Role **Overall Verdict** PASS

EVALKITST8500-1

Initiation	Date	Description of modification	Ed.
Omar DIOUF	October 1, 2019	Creation	00
	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	October 1, 2019	October 1, 2019	October 1, 2019
Sign	SM/	V.B.X	<u>_</u>
			Mr VI

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.

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Annex 4: Additional details of the certified platform

G3-PLC CENB

Platform model name:	ST8500	
Platform hardware version:	EVALMODSTST8500-1	
Platform firmware version:	4.4.9 - v1390B5EC - r1.6	
Exact part number of all the chips running G3-PLC stack in the certified platform:	ST8500	
What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:	PHY, MAC and 6LowPAN	
Hardware version of this chip:	revBB	
Software version running on this chip:	4.4.9 - v1390B5EC - r1.6	
Internal CPU frequency:	100 MHz for Cortex core and 400 MHz for RTE	
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