

Certificate registration number: G3.1902.275.1.D

Certificate holder: STMicroelectronics

Platform designation: ST8500,

Hardware version EVALMODSTST8500-1, Firmware version 4.4.1 - v13118659 - r1.0

Certification date: February 8th, 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-Coordinator.

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 January 2019. 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)	LAN19AF009

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. This certificate is valid from February 8th, 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, February 8th, 2019

For the G3-PLC Alliance:

Marc Delandre Chairman



Madeleine Francillard Chair Certification Program



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

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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	TRUE	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	TRUE	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 3: Copy of test report cover sheet

G3-PLC



G3-PLC Certification Test Report				
STMICROELECTRONICS	ST8500 HW:EVALMODSTST8500-1 FW: 4.4.1 - v13118659 - r1.0			
LAN19AF009	Ed.00	February 5, 2019	Page 1/24	

CERTIFIED

CEN B

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

Vendor Name

Model Name Serial N° HW version FW version

Test Report # Date

CONF Tests Specification **CONF** Tests Suite IOT Tests Specification **IOT Tests Suite**

Test Tool Tester Modem **Certification Test Procedures**

CENELEC B **PAN** Coordinator

ST8500

EVALMODSTST8500-1

4.4.1 - v13118659 - r1.0 TR_LAN19AF009 Ed.00

version 2.4p1.

version 2.0

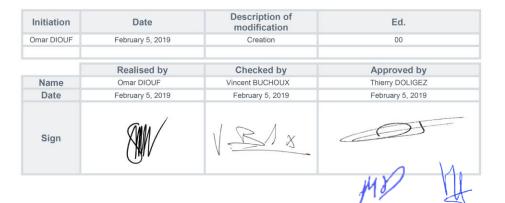
version 2.0

February 5, 2019

CC009-421

version 0.27. 08/04/2018 version 2.7p1p2. 04/2018 version 0.12. 08/04/2018 04/2018 version 1.12. 08/04/2018

Certification Profile Role **Overall Verdict** PASS



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 perso

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 anoratus may impact the results reported in this document.

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EVALKITST8500-

Annex 4: Additional details of the certified platform

G3-PLC CENB

Platform model name:	ST8500	
Platform hardware version:	EVALMODSTST8500-1	
Platform firmware version:	4.4.1 - v13118659 - r1.0	
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:	4.4.1 - v13118659 - r1.0	
Internal CPU frequency:	100 MHz for Cortex core and 400 MHz for RTE	
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