



C E R T I F I C A T E

Certificate registration number: G3.2003.384.1.D4

Certificate holder: Semitech Semiconductor Pty. Ltd.

Platform designation: SM8410,
Hardware version SM8410-2-ISL,
Firmware version g3-cenb-evk2-build1040-51b8a08d.bundle

Certification date: March 31st, 2020

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 February 2020. 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)	LAN19AF019

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 March 31st, 2020.

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, March 31st, 2020

For the G3-PLC Alliance:

Marc Delandre
Chairman

Madeleine Francillard
Chair Certification Program





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

Two handwritten signatures in blue ink, one to the left and one to the right, positioned above the footer.

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 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance

The device tested is a G3-PLC CENELEC B platform. Testing was performed on phase 1.

Operating voltage applied for certification testing was 230V / 50Hz.

Name	Value	Unit	Description
<p>PICS related to performance are available through vendor only.</p>			

Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report			
Semitech	SM8410 HW:SM8410-2-ISL FW: g3-cenb-evk2-build1040-51b8a08d.bundle		
LAN19AF019	Ed.00	February 25, 2020	Page 1/45

G3-PLC Alliance
G3-PLC Platform Certification Test Report

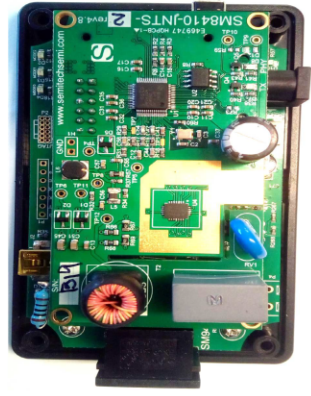
Vendor Name **Semitech Semiconductor Pty. Ltd.**
 Model Name **SM8410**
 Serial N° **00670168**
 HW version **SM8410-2-ISL**
 FW version **g3-cenb-evk2-build1040-51b8a08d.bundle**

Test Report # **TR_LAN19AF019 Ed.00**
 Date **February 25, 2020**

CONF Tests Specification	version 0.30.	03/12/2018
CONF Tests Suite	version 2.9.p1.	09/2019
IOT Tests Specification	version 0.13.	28/12/2018
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 **version 1.14** **21/08/2019**

Certification Profile **A (CENELEC B)**
 Role **PAND**
 Overall Verdict **PASS**



Initiation	Date	Description of modification	Ed.
Omar DIOUF	February 25, 2020	Creation	00

Name	Realised by	Checked by	Approved by
	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	February 25, 2020	February 25, 2020	February 25, 2020

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.

Annex 4: Additional details of the certified platform

Platform model name:	SM8410
Platform hardware version:	SM8410-2-ISL
Platform firmware version:	g3-cenb-evk2-build1040-51b8a08d.bundle
Exact part number of all the chips running G3-PLC stack in the certified platform:	SM2400
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:	SM2400
Software version running on this chip:	g3-cenb-evk2-build1040-51b8a08d.bundle
Internal CPU frequency:	60 MHz

MS *W*