



C E R T I F I C A T E

Certificate registration number: G3.1805.211.1.C3

Certificate holder: Semtech Corporation

Platform designation: ENIGMA,
Hardware version EV8010, Firmware version 5.0

Certification date: June 8th, 2018

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

The certificate applies to certification profile FCC Multipurpose Worldwide 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 April 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) | LAN18AF026 |

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. This certificate is valid from June 8th, 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, June 8th, 2018

For the G3-PLC Alliance:


Bernard Lassus
Chairman


Madeleine Francillard
Chair Certification Program





Annex 2: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

| Name | Value | Description |
|--|-------|--|
| BAND_PLAN | FCC | 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. |

Handwritten initials/signature

Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report

SEMTECH

ENIGMA HW:EV8010 FW: 5.0

LAN18AF026

Ed.00

June 7, 2018

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G3-PLC
Alliance

G3-PLC Platform Certification Test Report

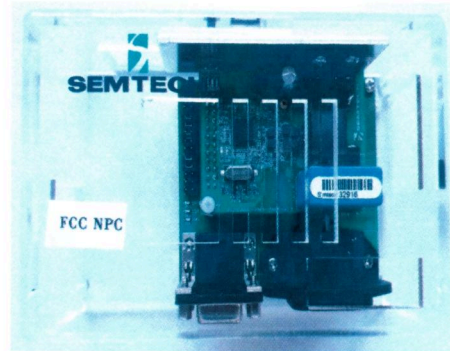
Vendor Name **SEMTECH**
Model Name **ENIGMA**
Serial N° **32916**
HW version **EV8010**
FW version **5.0**

Test Report # **TR_LAN18AF026 Ed.00**
Date **June 7, 2018**

CONF Tests Specification **version 0.25. 13/09/2017**
CONF Tests Suite **version 2.6. 10/2017**
IOT Tests Specification **version 0.10. 08/09/2017**
IOT Tests Suite **version 2.3. 09/2017**

Test Tool **version 1.8**
Tester Modem **version 1.10**
Certification Test Procedures **version 1.12. 08/04/2018**

Certification Profile **C (FCC)**
Role **PAN Device**
Overall Verdict **PASS**



| Initiation | Date | Description of modification | Ed. |
|------------|--------------|-----------------------------|-----|
| Omar DIOUF | June 7, 2018 | Creation | 00 |

| Name | Realised by | Checked by | Approved by |
|------|--------------|-----------------|-----------------|
| | Omar DIOUF | Vincent BUCHOUX | Thierry DOLIGEZ |
| Date | June 7, 2018 | June 7, 2018 | June 7, 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.



Annex 4: Additional details of the certified platform

| | |
|---|-----------------|
| Platform model name: | ENIGMA |
| Platform hardware version: | EV8010 |
| Platform firmware version: | 5.0 |
| Exact part number of all the chips running G3-PLC stack in the certified platform: | EV8010ILPT |
| What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack: | PHY+MAC+6LowPAN |
| Hardware version of this chip: | EV8010 |
| Software version running on this chip: | 5.0 |
| Internal CPU frequency: | 240 MHz |

H h



C E R T I F I C A T E

Certificate registration number: G3.2107.455.1.C3

Certificate holder: Farlink Technology Limited

Platform designation: ENIGMA,
Hardware version EV8010, Firmware version 5.0

Certification date: July 28th, 2021

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

The certificate applies to certification profile FCC Multipurpose Worldwide 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 April 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) | LAN21AF044 |

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. This certificate is valid from July 28th, 2021.

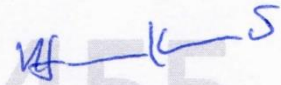
The certificate is only applicable to the platform described above and permits the use of the G3-PLC™ logo as laid down in the G3-PLC logo license agreement.

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, July 28th, 2021

For the G3-PLC Alliance:


Marc Delandre
Chairman


455

Madeleine Francillard
Chair Certification Program



Annex 1: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

| Name | Value | Description |
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Annex 2: Copy of test report cover sheet



G3-PLC Certification Test Report

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|----------------------------|-------------------------------|
| Farlink Technology Limited | ENIGMA HW:EV8010 FW: 5.0 |
| LAN21AF044 | Ed.00 July 22, 2021 Page 1/25 |

G3-PLC Alliance
G3-PLC Platform Certification Test Report

Vendor Name **Farlink Technology Limited**
 Model Name **ENIGMA**
 Serial N° **32916**
 HW version **EV8010**
 FW version **5.0**

Test Report # **TR_LAN21AF044 Ed.00**
 Date **July 22, 2021**

CONF Tests Specification **version 0.25. 13/09/2017**
 CONF Tests Suite **version 2.6. 10/2017**
 IOT Tests Specification **version 0.10. 08/09/2017**
 IOT Tests Suite **version 2.3. 09/2017**




Test Tool **version 1.8**
 Tester Modem **version 1.10**
 Certification Test Procedures **version 1.12. 08/04/2018**

Certification Profile **C (FCC)**
 Role **PAN Device**
 Overall Verdict **PASS**



The results reported in this test report are based on the test done on the ENIGMA SEMTECH and reported in the test report Ref. TR_LAN18AF026 Ed.00 (according to the manufacturer, both platforms are identical).

| Initiation | Date | Description of modification | Ed. |
|------------|---------------|-----------------------------|-----|
| Omar DIOUF | July 22, 2021 | Creation | 00 |

| | Realised by | Checked by | Approved by |
|------|---|---|--|
| Name | Omar DIOUF | Vincent BUCHOUX | Thierry DOLIGEZ |
| Date | July 22, 2021 | July 22, 2021 | July 22, 2021 |
| Sign |  |  |  |



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| What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack: | PHY+MAC+6LowPAN |
| Hardware version of this chip: | EV8010 |
| Software version running on this chip: | 5.0 |
| Internal CPU frequency: | 240 MHz |