

Certificate registration number: G3.1905.296.2.A3v2

Certificate holder: Shenzhen Kaifa Technology (Chengdu) Co., Ltd.

Product designation: MA110M, Hardware version V2.3, Firmware version V096011

Certification date: May 30th, 2019

This certificate indicates the above mentioned product 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 CENELEC A 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 May 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)	LAN18AF053

The device tested is a G3-PLC CENELEC A 1-phase meter. The meter is equipped with the G3-PLC certified platform ST8500 with certificate no. G3.1806.214.1.A3. Modifications of the platform have been done by the platform manufacturer. 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 May 30th, 2019.

The certificate is only applicable to the product 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, May 30th, 2019

For the G3-PLC Alliance:





Madeleine Francillard Chair Certification Program

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

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G₃-PLC

Page 1 of 6

Annex 1: Protocol Implementation Conformance Statement (PICS)

G3-PLC CENTIFIED

Feature implementation statement

Name	Value	Description
BAND_PLAN	CENELEC A	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.
	FALSE	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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Certificate registration number: G3.1905.296.2.A3v2

Page 2 of 6

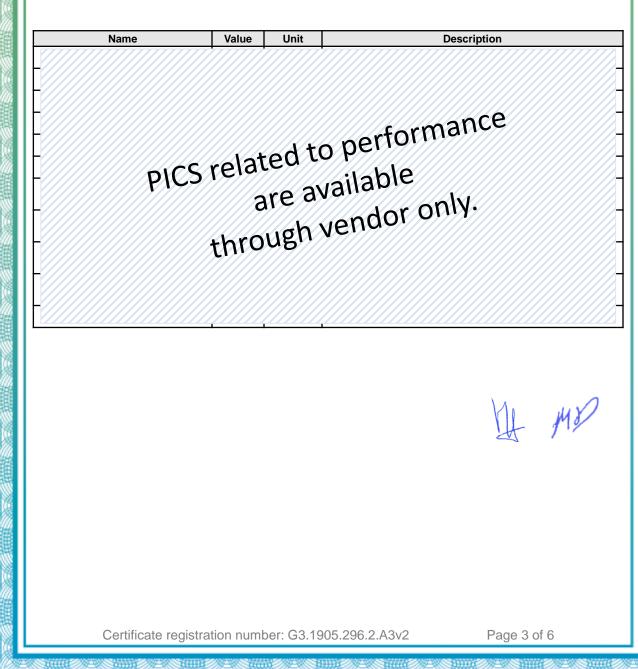
Annex 2: Protocol Implementation Conformance Statement (PICS)

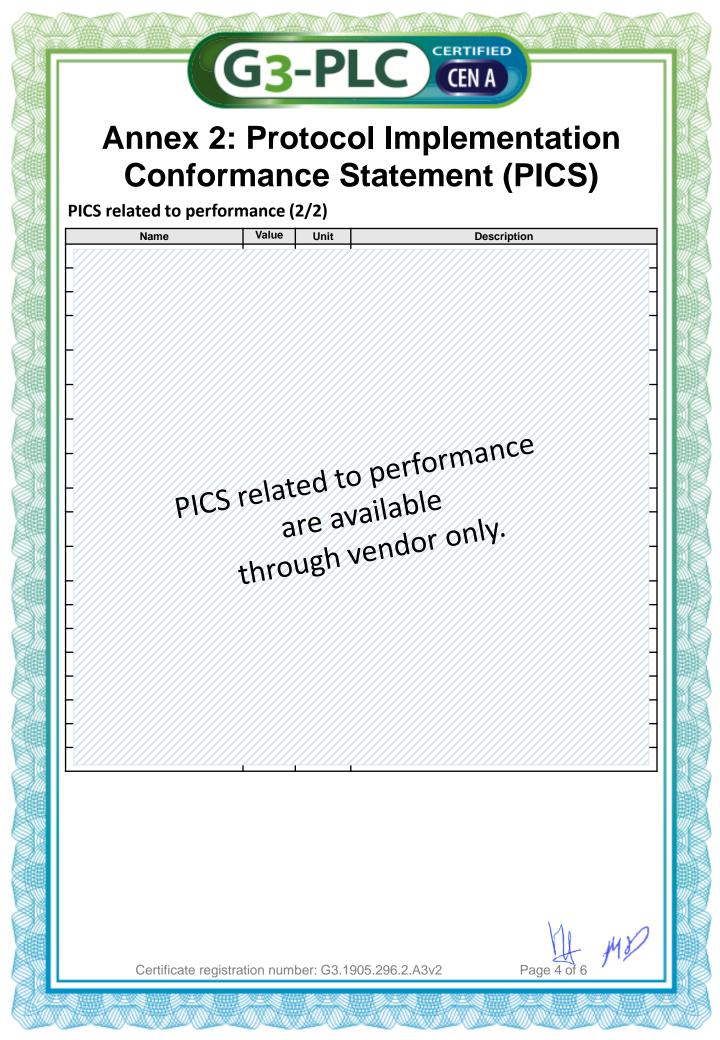
G3-PLC CENTIFIED

PICS related to performance (1/2)

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

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





Annex 3: Copy of test report cover sheet

LAN18AF053

G3-PLC CENA



G3-PLC Certificat	tion Test Report
enzhen Kaifa Technology (Chengdu) Co., Ltd.	MA110M HW:v2.3 FW

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

Vendor Name

Model Name Serial N° HW version FW version

Test Tool Tester Modem

Role

Shenzhen Kaifa Technology (Chengdu) Co., Ltd. **MA110M**

Test Report # Date

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

version 1.8 version 1.10 **Certification Test Procedures** version 1.13

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TR_LAN18AF053 Ed.01

version 0.25.

version 2.6.

version 0.10.

version 2.3.

version 0.25.

version 2.6p1.

V2.3

V096011

June 5, 2019

A (CENELEC A) **Certification Profile** Meter **Overall Verdict** PASS



06/03/2019



KAIFA

June 5, 2019

Page 1/46

Initiation	Date	Description of modification	Ed.
Omar DIOUF	May 27, 2019	Creation	00
Omar DIOUF	June 5, 2019	PHY_002_SIGNAL_LEVEL PICS value updated	01
	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	June 5, 2019	June 5, 2019	June 5, 2019
Sign	SM/	N. B. X	~ 05

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 i obtained in the period between the initial receipt of samples and the issue of the report. It should be noted that te apparatus may impact the results reported in this document. ts in this report relate only to the items tested and were at technical hardware or software modifications on the

Certificate registration number: G3.1905.296.2.A3v2

Page 5 of 6