



C E R T I F I C A T E

Certificate registration number: G3.2207.523.2.A5

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

Product designation: MA309M

Hardware version Main board V1.2 Power board V1.4, Firmware version V096011

Certification date: July 14th 2022

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 2022. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Performance testing according to the test specification referenced by the test report	Laboratoire des Applications Numériques (LAN)	LAN22AF034

The device tested is a G3-PLC CENELEC A 3-phase meter. The meter is equipped with the G3-PLC certified platform ST8500 with certificate no. G3.1911.354.1.A4. 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 July 14th 2022.

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, July 14th 2022

For the G3-PLC Alliance:

Marc Delandre
Chairman

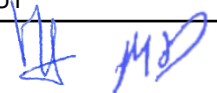
Madeleine Francillard
Chair Certification Program

G3-PLC
Alliance

Annex 1: Protocol Implementation Conformance Statement (PICS)

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_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	Indicate if D8PSK modulation is supported
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





Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 3-phase meter communicating on 1 phase. Testing was performed on phase 3.

Operating voltage applied for certification testing was 3 x 230V/50Hz.

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



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

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

Shenzhen Kaifa Technology (Chengdu) Co., Ltd.	MA309M HW:Main board V1.2 Power board V1.4 FW: V096011
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G3-PLC Product Certification Test Report

Vendor Name **Shenzhen Kaifa Technology (Chengdu) Co., Ltd.**
 Model Name **MA309M**
 Serial N° **220399000037 with G3-PLC Module : K01P35 PLCV1.1 2021 0324 (S/N: TPPLC0000097)**
 HW version **Main board V1.2 Power board V1.4**
 FW version **V096011**

Test Report # **TR_LAN22AF034 Ed.00**
 Date **July 6, 2022**

CONF Tests Specification	version 0.32.	15/03/2021
CONF Tests Suite	version 2.11.p2.	04/2021
IOT Tests Specification	version 0.13.	28/12/2018
IOT Tests Suite	version 2.6.p2.	03/2021
PERF Tests Specification	version 0.27.	05/03/2019
PERF Tests Suite	version 2.11.p2.	04/2021

Test Tool	version 2.3	
Tester Modem	version 2.0	
Certification Test Procedures	version 2.0	12/04/2021

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



Initiation	Date	Description of modification	Ed.
Omar DIOUF	July 6, 2022	Creation	00

	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	July 6, 2022	July 6, 2022	July 6, 2022

Sign			
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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.