

C E R T I F I C A T E

Certificate registration number: G3.2201.488.2.A5

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

Product designation: AJ102C,

Hardware version V3.0, Firmware version V2226

Certification date: January 28th 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-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 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) | LAN21AF045 |

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The data concentrator is equipped with the G3-PLC certified platform ST8500 with certificate no. G3.1904.282.1.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 January 28th 2021.

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, January 28th 2021

For the G3-PLC Alliance:

Marc Delandre Chairman Madeleine Francillard
Chair Certification Program





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 | TRUE | Indicate if the device is a PAN-Coordinator (true) or a normal device (false). | |
| FEATURE_COHERENT_MODULAT ION | TRUE | Indicate if coherent modulation is supported. | |
| FEATURE FAR CERVER | TDUE | Indicate if an EAP-PASK server is implemented by the DUT. | |
| FEATURE_EAP_SERVER | TRUE | 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 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

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

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

| Name | value | Unit | Description | |
|------|------------------------|----------------------|---|---|
| P | ICS relat a thro | ed t re a' ugh | o performance vailable vendor only. | - |
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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

| PICS related to performance are available through vendor only. | |
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Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report

Shenzhen Kaifa

AJ102C HW:V3.0 FW: V2226

LAN21AF045

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G3-PLC Product Certification Test Report

15/03/2021

05/03/2019

12/04/2021

04/2021 28/12/2018

03/2021

04/2021

Shenzhen Kaifa Technology (Chengdu) Co., Ltd.

Model Name

AJ102C

Serial N° HW version KFM2130290000110

FW version

V3.0 V2226

Test Report # Date

TR_LAN21AF045 Ed.01

January 27, 2022

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

IOT Tests Suite PERF Tests Specification

PERF Tests Suite

Tester Modem

Test Tool

version 2.11.p2. version 0.13. version 2.6.p2.

version 0.32.

version 0.27. version 2.11.p2.

version 2.3 version 2.0 Certification Test Procedures version 2.0

Certification Profile A (CENELEC A) **Data Concentrator** Role

Overall Verdict **PASS**

| KAIFA | | PLC TO |
|---|--|-----------|
| KAIFA Data Concentrator Unit adfilms □ (€ Power Phace R Phace R Phace R Alarm GPRSSGATE Signs WAN LAN RC LA | Type: A1102C 3X 33239V 3X23040FV 5060Hz IP94 Made in China 2007 Manuflucturer : Sherizhen Kafla Te (Chengdu) Co., Ltd. | े से • |
| | | |

| Initiation | Date | Description of modification | Ed. |
|------------|------------------|-----------------------------|------------------|
| Omar DIOUF | January 24, 2022 | Creation | 00 |
| Omar DIOUF | January 27, 2022 | FW version updated | 01 |
| | Realised by | Checked by | Approved by |
| Name | Omar DIOUF | Vincent BUCHOUX | Thierry DOLIGEZ |
| Date | January 27, 2022 | January 27, 2022 | January 27, 2022 |
| Sign | W | V.B./X | |

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.

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