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Certificate registration number: G3.2205.514.2.A5

Certificate holder: ENSOR AG

Product designation: Amera DC 2.0

Hardware version SAMG55 / MPL360BT-I/Y8X 36.01.04.12, Firmware version PSU-Board S-E2001 (SAMG55/MPL369) Rev.b

Certification date: May 10<sup>th</sup>, 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 April 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)	LAN22AF025

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The data concentrator is equipped with the G3-PLC certified platform Amera DC 2.0 with certificate no. G3.2205.510.1.A5. 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 10<sup>th</sup> 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, May 10th 2022

For the G3-PLC Alliance:

Mare 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	TRUE	Indicate if an EAP-PASK server is implemented by the DUT	
FEATURE_EAP_SERVER		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_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.

Na	ame	value	Unit	Description	
Na	PICS 1	elat a thro	ed to re av	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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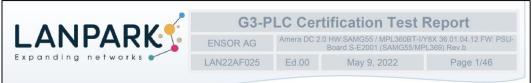
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### Annex 3: Copy of test report cover sheet



G3-PLC Alliance

### G3-PLC Product Certification Test Report

Vendor Name ENSOR AG

Model Name Amera DC 2.0

Serial N° 00000017

HW version SAMG55 / MPL360BT-I/Y8X 36.01.04.12
FW version PSU-Board S-E2001 (SAMG55/MPL369) Rev.b

Test Report # TR\_LAN22AF025 Ed.00

Date May 9, 2022

**CONF Tests Specification** version 0.32. 15/03/2021 **CONF Tests Suite** version 2.11.p2. 04/2021 28/12/2018 version 0.13. **IOT Tests Specification 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 Data Concentrator

Overall Verdict PASS



Initiation	Date	Description of modification	Ed.
Omar DIOUF	May 9, 2022	Creation	00
	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	May 9, 2022	May 9, 2022	May 9, 2022
Sign	841/	V. El 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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### Annex 4: Additional details of the platform on which the product is based

Platform model name on which product is based:	Amera DC 2.0	
Platform G3-PLC certificate number:	G3.2205.510.1.A5	
Exact part number of all the chips running G3-PLC stack in the certified platform:	Chip #1: MPL360BT-I/Y8X	Chip #2: ATSAMG55J19B
What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:	РНҮ	Lower MAC, MAC, 6LowPAN
Hardware version of this chip:	MPL360BT-I/Y8X	ATSAMG55J19B
Software version running on this chip:	36.01.04.12	g3_2020.04.1
Internal CPU frequency:	216 MHz	96 MHz

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