



# C E R T I F I C A T E

**Certificate registration number:** G3.2108.457.2.C5

**Certificate holder:** Andrea Informatique

**Product designation:** Pegasus Hybrid,  
Hardware version 104, Firmware version 3.4.0 (Build:27906)

**Certification date:** August 26<sup>th</sup>, 2021

This certificate indicates the above mentioned product successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017). The optional features Hybrid PLC&RF and coherent mode of the G3-PLC protocol are also covered by this certification.

The reference version for the optional hybrid feature is the G3-PLC Hybrid PLC&RF companion specification v0.11 (31-07-2020). 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 August 2021. 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)	LAN20AF081

The device tested is a G3-PLC FCC Hybrid PLC&RF 1-phase meter. The meter is equipped with the G3-PLC certified platform Centaur inside with certificate no. G3.2108.456.1.C5. 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 August 26<sup>th</sup>, 2021.

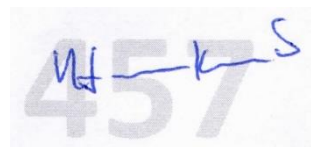
The certificate is only applicable to the product described above and permits the use of the G3-PLC™ logo as laid down in the G3-PLC logo license agreement.

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, August 26<sup>th</sup>, 2021

For the G3-PLC Alliance:

  
**Marc Delandre**  
Chairman



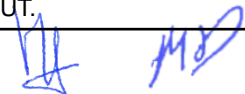
**Madeleine Francillard**  
Chair Certification Program



# Annex 1: Protocol Implementation Conformance Statement (PICS)

## Feature implementation statement

Name	Value	Description
BAND_PLAN	FCC	Indicate the band-plan supported by the device.
BAND_PLAN_RF	863-870 MHz, mode #1	Indicate the RF band-plan.
FEATURE_HYBRID_RF	TRUE	Indicate if Hybrid PLC&RF feature is supported.
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.





# Annex 2: Protocol Implementation Conformance Statement (PICS)

## PICS related to performance (1/2)

The device tested is a G3-PLC FCC Hybrid 1-phase meter. Testing was performed on phase 1. Operating voltage applied for certification testing was 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

Andrea Informatique Pegasus Hybrid HW:104 FW: 3.4.0 (Build:27906)  
LAN20AF081 Ed.00 August 25, 2021 Page 1/55



## G3-PLC Hybrid Product Certification Test Report

Vendor Name **Andrea Informatique**  
 Model Name **Pegasus Hybrid**  
 Serial N° **0000000071**  
 HW version **104**  
 FW version **3.4.0 (Build:27906)**

Test Report # **TR\_LAN20AF081 Ed.00**  
 Date **August 25, 2021**

CONF G3-PLC Tests Specification	<b>version 0.32.</b>	<b>15/03/2021</b>
CONF G3-PLC Tests Suite	<b>version 2.11.p2.</b>	<b>04/2021</b>
CONF HYBRID Tests Specification	<b>version 0.7.</b>	<b>15/03/2021</b>
CONF HYBRID Tests Suite	<b>version 1.2.p5.</b>	<b>07/2021</b>
IOT G3-PLC Tests Specification	<b>version 0.13.</b>	<b>28/12/2018</b>
IOT G3-PLC Tests Suite	<b>version 2.6.p2.</b>	<b>03/2021</b>
IOT HYBRID Tests Specification	<b>version 0.4.</b>	<b>15/03/2021</b>
IOT RF Tests Suite	<b>version 1.2.p1.</b>	<b>03/2021</b>
PERF G3-PLC Tests Specification	<b>version 0.27.</b>	<b>05/03/2019</b>
PERF G3-PLC Tests Suite	<b>version 2.11.p2.</b>	<b>04/2021</b>

Test Tool PLC **version 2.3**  
 Tester Modem PLC **version 2.0**  
 Test Tool PLC+RF **version 3.1**  
 Tester Modem PLC+RF **version 7**  
 Certification Test Procedures **version 2.0** **12/04/2021**

Certification Profile **HYBRID : FCC - RF**  
 Role **Meter**  
 Overall Verdict **PASS**



Initiation	Date	Description of modification	Ed.
Omar DIOUF	August 25, 2021	Creation	00

	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	August 25, 2021	August 25, 2021	August 25, 2021
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.