



C E R T I F I C A T E

Certificate registration number: G3.1810.244.2.A3

Certificate holder: Smart Metering Solution (Changsha) Co., Ltd.

Product designation: IM350,
Hardware version IM350 V1.3, Firmware version G3_v1.3.0

Certification date: October 29th, 2018

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 September – October 2018. 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)	LAN18AF075

The device tested is a G3-PLC CENELEC A 3-phase meter. The meter is equipped with the G3-PLC certified platform aMeter150 with certificate no. G3.1810.238.1.A3. 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 October 29th, 2018.

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, October 29th, 2018

For the G3-PLC Alliance:


Bernard Lassus
Chairman


Madeleine Francillard
Chair Certification Program

G3-PLC
Alliance



Annex 2: 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	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.

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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 meter communicating on 1 phase. Testing was performed on phase 1.

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

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

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			
Smart Metering Solution (Changsha) Co., Ltd.	IM350 HW:IM350 V1.3 FW:G3_v1.3.0		
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G3-PLC Alliance
G3-PLC Product Certification
Test Report

Vendor Name	Smart Metering Solution (Changsha) Co., Ltd.		
Model Name	IM350		
Serial N°	20180801		
HW version	IM350 V1.3		
FW version	G3_v1.3.0		
Test Report #	TR_LAN18AF075 Ed.00		
Date	October 16, 2018		
CONF Tests Specification	version 0.25.	13/09/2017	
CONF Tests Suite	version 2.6.	10/2017	
IOT Tests Specification	version 0.10.	08/09/2017	
IOT Tests Suite	version 2.3.	09/2017	
PERF Tests Specification	version 0.23.	16/08/2017	
PERF Tests Suite	version 2.6p1.	02/2018	
Test Tool	version 1.8		
Tester Modem	version 1.10		
Certification Test Procedures	version 1.12	08/04/2018	
Certification Profile	A (CENELEC A)		
Role	Meter		
Overall Verdict	PASS		



Initiation	Date	Description of modification	Ed.
Omar DIOUF	October 16, 2018	Creation	00

	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	October 16, 2018	October 16, 2018	October 16, 2018
Sign			

The content herein and the test results produced in this certificate 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.