

C E R T I F I C A T E

Certificate registration number: G3.1810.243.2.A3

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

Product designation: IM150,

Hardware version IM150 V1.1, 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)	LAN18AF077

The device tested is a G3-PLC CENELEC A 1-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 Charman

Madeleine Francillard
Chair Certification Program



Authenticity of this certificate can be verified at http://www.g3-plc.com/certified-products-platforms/

Page 1 of 6



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_MODULAT ION	TRUE	Indicate if coherent modulation is supported.
FEATURE FAR SERVER	FALSE	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	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.



Certificate registration number: G3.1810.243.2.A3

Page 2 of 6



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

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

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

	Haine	, value	011110	200011511011	
-	PICS	relat a thro	ed to tre av	o performance vailable vendor only.	- - - - -
				<u>, </u>	

Certificate registration number: G3.1810.243.2.A3

Page 3 of 6



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

	Name	Value	Unit	Description	
PICS related to performance are available through vendor only.	PIC	s relat a thro	ed to re ava ugh ve	performance ilable endor only.	

Certificate registration number: G3.1810.243.2.A3

Page 4 of 6



Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report

Smart Metering Solution (Changsha) Co. Ltd.

IM150 HW IM150 V1 1 FW 33 v1 3.0

LAN18AF077

October 16, 2018 Page 1/46

G3-PLC Product Certification Test Report

Smart Metering Solution (Changsha) Co., Ltd. Vendor Name

IM150 Model Name 20180801 Serial N° IM150 V1.1 HW version FW version G3_v1.3.0

Test Report # TR_LAN18AF077 Ed.00 October 16, 2018 Date

CONF Tests Specification version 0.25. 13/09/2017 CONF Tests Suite version 2.6. 10/2017 08/09/2017 IOT Tests Specification version 0.10. 09/2017 version 2.3. IOT Tests Suite 16/08/2017 PERF Tests Specification version 0.23. PERF Tests Suite version 2.6p1. 02/2018

version 1.8 Test Tool version 1.10 Tester Modem

Certification Test Procedures version 1.12 08/04/2018

A (CENELEC A) Certification Profile Meter Role

Overall Verdict PASS

Initiation	Date	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	811	V. S. X	

December of

Certificate registration number: G3.1810.243.2.A3

Page 5 of 6

