



C E R T I F I C A T E

Certificate registration number: G3.1803.197.2.C3

Certificate holder: JIANGSU LINYANG ENERGY CO., LTD.

Product designation: SM150,
Hardware version 7.825.002346V2, Firmware version 20180226

Certification date: March 12th, 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 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 March 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)	LAN18AF010 Ed.01

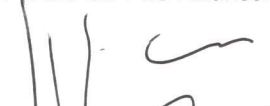
The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform SM350 with certificate no. G3.1803.192.1.C3. The Protocol Implementation Conformance Statement in the Annex includes the PICS related to performance and is an integral part of this certificate. This certificate is valid from March 12th, 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, March 12th, 2018

For the G3-PLC Alliance:


Bernard Lassus
Chairman



Madeleine Francillard
Chair Certification Program





Annex 2: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

Name	Value	Description
BAND_PLAN	FCC	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 FCC 1-phase meter. Testing was performed on phase 1.

Operating voltage applied for certification testing was 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			
LINYANG	SM150 HW:7.825.002346V2 FW: 20180226		
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G3-PLC Alliance
G3-PLC Product Certification Test Report

Vendor Name **LINYANG**
 Model Name **SM150**
 Serial N° **95000000026**
 HW version **7.825.002346V2**
 FW version **20180226**

Test Report # **TR_LAN18AF010 Ed.01**
 Date **March 9, 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 1.11** **11/09/2017**

Certification Profile **C (FCC)**
 Role **Meter**
 Overall Verdict **PASS**



Initiation	Date	Description of modification	Ed.
Omar DIOUF	March 7, 2018	Creation	00
Omar DIOUF	March 9, 2018	PICS of the PERF 2.8 (Sensitivity Test) and PIXIT p_LQI_TEST_SIGNAL_LEVEL (LQI test) updated	01

Name	Realised by	Checked by	Approved by
	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	March 9, 2018	March 9, 2018	March 9, 2018

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.