

C E R T I F I C A T E

Certificate registration number: G3.2009.407.2.C4

Certificate holder: Shenzhen Star Instrument Co., Ltd.

Product designation: DTS27,

Hardware version K353-AA, Firmware version MBUZ324-03 V100R100

Certification date: September 14th, 2020

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 September 2020. 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)	LAN20AF033

The device tested is a G3-PLC FCC 3-phase meter. The meter is equipped with the G3-PLC certified platform ST8500 with certificate no. G3.1911.355.1.C4. Modifications of the platform that are not related to the G3-PLC protocol have been done by the platform manufacturer. 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 September 14th, 2020.

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, September 14th 2020

For the G3-PLC Alliance:

Marc Delandre Chairman Madeleine Francillard

Chair Certification Program

Chair Certification Program

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

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Annex 1: 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_MODULAT ION	TRUE	Indicate if coherent modulation is supported.	
FEATURE_EAP_SERVER FA	FALOE	Indicate if an EAP-PASK server is implemented by the DUT.	
	FALSE	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.	

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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

Name

The device tested is a G3-PLC FCC 3-phase meter communicating on 3 phases. Testing was performed on phase 1.

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

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Description

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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

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Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report

Shenzhen Star Instrument Co., Ltd. DTS27 HW:K353-AA FW: MBUZ324-03 V100R100

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G3-PLC Alliance

G3-PLC Product Certification Test Report

Shenzhen Star Instrument Co., Ltd. Vendor Name

version 1.14

DTS27 Model Name 2007999009 Serial N° HW version K353-AA

FW version MBUZ324-03 V100R100

Test Report # TR LAN20AF033 Ed.00 September 9, 2020 Date

CONF Tests Specification CONF Tests Suite IOT Tests Specification IOT Tests Suite PERF Tests Specification

version 0.27. PERF Tests Suite version 2.9.p1. Test Tool version 2.3 Tester Modem version 2.0

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

Certification Test Procedures

03/12/2018 version 0.30. 09/2019 version 2.9.p1. version 0.13. 28/12/2018 version 2.6.p1. 09/2019 05/03/2019

09/2019

21/09/2019



Initiation	Date	Description of modification	Ed.
Omar DIOUF	September 9, 2020	Creation	00
	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	September 9, 2020	September 9, 2020	September 9, 2020
Sign	841/	V.BAX	

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

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