

CERTIFICATE

Certificate registration number: G3.1905.287.1.C4

Certificate holder: Microchip Technology

Platform designation: PL360G55CF,

Hardware version PL360G55CF-EK v1, Firmware version G3 v.1.4.0

Certification date: May 3rd, 2019

This certificate indicates the above mentioned platform 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 – April 2019. 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)	LAN19AF026

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. 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 May 3rd, 2019.

The certificate is only applicable to the platform 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, May 3rd, 2019

For the G3-PLC Alliance:

Marc Delandre Chairman Madeleine Francillard

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 FAR CERVER	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.
		J. M.S.



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance

The device tested is a G3-PLC FCC platform. Operating voltage applied for certification testing was 230V / 50Hz.

Name	value	Unit	Description	
PICS	relat a	ed to	o performance vailable vendor only.	-
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Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report

Microchip Technology

PL360G55CF HW:PL360G55CF-EK v1 FW:

LAN19AF026

Ed.00

April 30, 2019

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G3-PLC Alliance

G3-PLC Platform Certification Test Report

Vendor Name Microchip Technology

Model Name PL360G55CF Serial N° 190121110006

HW version PL360G55CF-EK v1 FW version G3_v.1.4.0

Test Report # TR_LAN19AF026 Ed.00

Date April 30, 2019

CONF Tests Specification version 0.30. 03/12/2018 **CONF Tests Suite** 03/2019 version 2.9. 28/12/2018 IOT Tests Specification version 0.13. **IOT Tests Suite** version 2.6. 03/2019 PERF Tests Specification version 0.27. 05/03/2019 PERF Tests Suite version 2.9. 03/2019

Test Tool version 2.3
Tester Modem version 2.0

Certification Test Procedures version 1.13 03/06/2019

Certification Profile
Role
Overall Verdict

C (FCC)
PAND
PASS



Initiation	Date	Description of modification	Ed.
Omar DIOUF	April 30, 2019	Creation	00
	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	April 30, 2019	April 30, 2019	April 30, 2019
Sign	8	V.B./X	
	0		Maria
			Me Me

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.

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Annex 4: Additional details of the certified platform

Platform model name:	PL360G55CF	
Platform hardware version:	PL360G55CF-EK v1	
Platform firmware version:	G3_v.1.4.0	
Exact part number of all the chips running G3-PLC stack in the certified platform:	Chip #1: PL360B	Chip #2: ATSAMG55J19-MU
What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:	PHY + Lower MAC	MAC & 6LowPAN
Hardware version of this chip:	В	В
Software version running on this chip:	36.02.04	G3_v.1.4.0
Internal CPU frequency:	216 MHz	120 MHz

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