



C E R T I F I C A T E

Certificate registration number: G3.1601.067.1.A2

Certificate holder: STMicroelectronics S.r.l.

Platform designation: STCOMET,
Hardware version STCOMET 10, Firmware version v 0FC163F0

Certification date: January 12th, 2016

This certificate indicates the above mentioned platform successfully completed certification testing with regards to the reference specification ITU G.9903 (02-2014) plus the changes listed in an annex to this certificate. The optional feature coherent mode of the G3-PLC protocol is also covered by this certification.

The certificate applies to certification profile Metering Cenelec A and the device was configured as a PAN-Coordinator.

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 December 2015. The results and remarks can be found in the complete test report.

Table with 3 columns: Applied tests, Performed by, Document evidence. Row 1: Conformance and interoperability testing according to the test specification referenced by the test report, Laboratoire des Applications Numériques (LAN), Test report LAN15AF084

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. This certificate is valid from January 12th, 2016.

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. The certificate may only be reproduced in full.

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, January 12th, 2016

For the G3-PLC Alliance:

Signature of Bernard Lassus, Chairman

Signature of Madeleine Francillard

Madeleine Francillard
Chair Certification Program





Annex 1: Reference Version for Certification

The reference version for this certificate is published in 'Narrowband OFDM PLC specifications for G3-PLC network, April 2015'.

The reference version for this certification is:

ITU-T G.9903 (02-2014)

- + CCTT #24-25-30: Implementation of MAC security (anti-replay) solution F1
- + CCTT #61: ADPM-Buffer behavior clarification
- + CCTT #143: AC Phase Detection v2
- + CCTT #144: Hop Limit usage during route repair v3
- + CCTT #145: Value of RCoord when the node is at adpMaxHops hops from the coordinator
- + CCTT #146: Pilot tone generation
- + CCTT #147: Link-cost computation for Path discovery v2
- + CCTT #148: Path discovery frame routing v3
- + CCTT #152: Scrambler reset
- + CCTT #154: Clarification of PANCount and PANDescriptor
- + CCTT #156: Clarification of ADPM-NETWORK-STATUS.indication
- + CCTT #157: Interleaver Equation v2
- + CCTT #158: Unicast Routing Process
- + CCTT #159: Correct the windowing function description
- + CCTT #160: Clarify 16QAM quantisation and optionality
- + CCTT #161: Correct aMaxFrameSize and aMinFrameSize for FCC/ARIB bandplans
- + CCTT #162: Interleaver co-prime number clarification v2
- + CCTT #163: CRC5 and CRC8 packing order
- + CCTT #164: Route Repair v2
- + CCTT #165: Clarification Neighbour Table v2
- + CCTT #167: HOP COUNT metric identifier v2
- + CCTT #169: Clarification on PLME_GET v4
- + CCTT #170: Clarification to Frame Counter Handling Mechanism v2
- + CCTT #172: Windowing in coherent mode
- + CCTT #173: Clarification of LOADng mechanism used to detect bidirectional links
- + CCTT #174: Avoiding duplicated MAC packets
- + CCTT #175: LOADng - subsequent RREP generation
- + CCTT #176: Link cost function of LQI v3
- + CCTT #177: Broadcast routing - filtering frames on the source
- + CCTT #178: Coexistence of G3-PLC with other PLC technologies v3
- + CCTT #179: RREP Filtering v3
- + CCTT #181: Route Repair v2

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	TRUE	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	TRUE	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.

Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report
 ST MICROELECTRONICS STCOMET #10 FW: 0FC163F0
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G3-PLC Alliance
G3-PLC Platform Certification Test Report

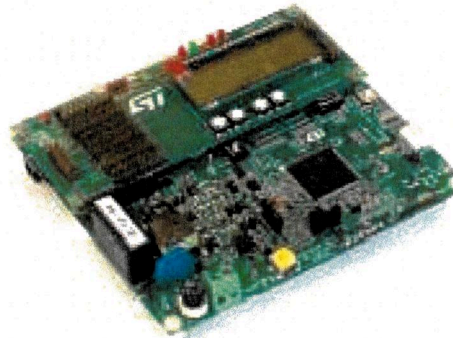
Vendor Name: ST MICROELECTRONICS
 Model Name: STCOMET
 Serial N°: AA82
 HW version: STCOMET 10
 FW version: V 0FC163F0

Test Report #: .TR_LAN15AF084 Ed.00
 Date: January 8, 2016

CONF Tests Specification: version 0.19. 01/09/2015
 CONF Tests Suite: version 2.1. 10/2015
 IOT Tests Specification: version 0.7. 21/04/2015
 IOT Tests Suite: version 2.1. 10/2015

Test Tool: version 1.7
 Tester Modem: version 1.09
 Certification Test Procedures: version 1.5. 01/12/2015

Certification Profile: A (CENELEC A)
 Role: PAN Coordinator
 Overall Verdict: PASS



Initiation	Date	Description of modification	Ed.
Order DOLUF	January 8, 2016	Creation	00
Name	Realized by	Checked by	Approved by
Date	Order DOLUF	Vincent BUCHOUX	Thierry DOLKIEZ
Sign	January 8, 2016	January 8, 2016	January 8, 2016

The standard model and the model number provided in this document are given for information only and may not be used by the client without the express consent of the manufacturer.
 This report contains the contents of the submitted system and its structure as indicated in the introduction. The overall L3-PLC report refers to it. The client should not use the information in this report without the prior approval of the manufacturer and the issuer of the report. It should be noted that individual hardware or software modifications to the submitted system may affect the results reported in this document.