

CERTIFICATE

Certificate registration number: G3.1907.307.1.C4

Certificate holder: Renesas Electronics Corporation

Platform designation: REL-G3PLC-CPX3,

Hardware version R9A06G037GNP, Firmware version 3.04.00

Certification date: July 10th, 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-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 TÜV Rheinland in Yokohama, Japan in June 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	TÜV Rheinland Japan	50256747 001

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 July 10th, 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, July 10th, 2019

For the G3-PLC Alliance:

Marc Delandre Chairman Madeleine Francillard
Chair Certification Program





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	TRUE	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	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_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

The device tested is a G3-PLC FCC platform. Operating voltage applied for certification testing was 100V / 50Hz.

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Annex 3: Copy of test report cover sheet

Produkte



Products Prüfbericht-Nr.: Auftrags-Nr.: Seite 1 von of 42 50256747 001 150112053 Test Report No.: Order No. Page 1 von of 42 Kunden Referenz-Nr.: Auftragsdatum: EGEM3-AE-19-0006-01 2019-05-24 Client Reference No. Order date: **Renesas Electronics Corporation** Auftraggeber: Client: 5-20-1, Josuihon-cho, Kodaira-shi, Tokyo, 187-8588, Japan Gegenstand der Prüfung: G3-PLC FCC Platform (PAN Coordinator) Bezeichnung / Typ-Nr.: REL-G3PLC-CPX3 Identification / Type No. Auftrags-Inhalt: **G3-PLC Certification Test** Order content: G3-PLC Conformance L1-L2 Test Suite Specification v0.30 Prüfgrundlage: G3-PLC 1-to-1 Interoperability Test Suite Specification v0.13 Test specification: G3-PLC Performance Test Suite Specification v0.27 G3-PLC Certification Test Procedures v1.13 2019-06-07 Wareneingangsdatum: Date of receipt: Prüfmuster-Nr.: A000949042 Test sample No.. Prüfzeitraum: 2019-06-10 - 2019-06-17 Testing period: Ort der Prüfung: TÜV Rheinland Japan Ltd. Place of testing: Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku G-CPX3 Yokohama 224-0021, Japan Prüflaboratorium: 7ET0109 TÜV Rheinland Japan Ltd. Testing laboratory. CE Prüfergebnis: The test item passed the Test results: test specification(s).

Geprüft von Tested by:

Stone

Kontrolliert von Reviewed by:

2019-06-25, Atsuhiro Endo

 Datum
 Name / Stellung
 Unterschrift
 Datum
 Name / Stellung
 Unterschrift

 Date
 Name / Position
 Signature
 Date
 Name / Position
 Signature

Sonstiges I Other Aspects:

2019-06-21, Tam Tran Thanh

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Prüfmuster vollständig und unbeschädigt Test item complete and undamaged

*Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft

P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet

Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor

P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark

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