

Certificate registration number: G3.1907.304.1.A4

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 CENELEC A 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 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	50256750 002

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



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

Page 1 of 5

Annex 1: Protocol Implementation Conformance Statement (PICS)

G3-PLC CENTIFIED

Feature implementation statement

Name	Value	Description	
BAND_PLAN	CENELEC A	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	TRUE	Indicate if coherent modulation is supported.	
	FALSE	Indicate if an EAP-PASK server is implemented by the DUT.	
FEATURE_EAP_SERVER	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.	
		I Ma	

Certificate registration number: G3.1907.304.1.A4

Page 2 of 5



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance

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

Name	Value	Unit	Descript	tion		
- - - - - - - - - - - - - - - - - - -	S relat a thro	ed to re av ugh '	o performano vailable vendor only.	e		
Opriliante reg			007 004 4 4 4		MD	
Certificate reg	jistration num	oer: G3.1	907.304.1.A4	Page 3 o	of 5	

Annex 3:

G3-PLC CENTIFIED

Copy of test report cover sheet

Produkte Products 🛕 TÜVRheinland®

FIOUUCIS					
Prüfbericht-Nr.: Test Report No.:	50256750 002	Auftrags-Nr.: Order No.: 15	0112055	Seite 1 von <i>of</i> 42 Page 1 von <i>of</i> 42	
Kunden Referenz-Nr.: Client Reference No.:	EGEM3-AE-19-0006	-01 Auftragsdatu Order date:	^{m:} 2019-05	-24	
Auftraggeber:	Renesas Electronic	s Corporation			
Client:	5-20-1, Josuihon-ch	no, Kodaira-shi, Tokyo	o, 187-8588, J	apan	
Gegenstand der Prüfun Test item:	g: G3-PLC CENELEC-	A Platform (PAN Devi	ce)		
Bezeichnung / Typ-Nr.: Identification / Type No.:	REL-G3PLC-CPX3				
Auftrags-Inhalt: Order content:	G3-PLC Certificatio	n Test			
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Inter G3-PLC Performance	nce L1-L2 Test Suite S operability Test Suite ce Test Suite Specific n Test Procedures v1	Specification ation v0.27		
Wareneingangsdatum:	2019-06-07				
Date of receipt: Prüfmuster-Nr.: Test sample No.:	A000949042				
Prüfzeitraum: Testing period:	2019-06-24 – 2019-0	6-27			
Ort der Prüfung:	TÜV Rheinland Japa	an Ltd.			
Place of testing:	Global Technology Assessment Center 4	1-25-2			
	Kita-Yamata, Tsuzuki		G-CPX3		
	Yokohama 224-0021	, Japan	RENESAS MALE MAN	+	
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japar	n Ltd.	RTK0EE0003D010018J sense for 7ET0109 EXTVALIBUTION Comparison		
Prüfergebnis: Test results:	The test item passed test specification(s).	the	(E ()	0	
Geprüft von		Kontrolliert v	on		
Tested by:	Atur	Reviewed by:		1 den 2005	
2010 07 01 Tam Tran Th	Man	2010 07 02 44	oubine Ende	June J.	
2019-07-01, Tam Tran Th Datum Name	/ Stellung Unterschrift	2019-07-03, At Datum	Name / Stellur	ng Unterschrift	
Date Name	/ Position Signature		Name / Positio		
Sonstiges / Other Aspec	ts: standes bei Anlieferung:	Prüfmuster vol	llständig und	unbeschädigt	
Condition of the test item	at delivery:	Test item compl	lete and unda	maged	
*Legende: 1 = sehr gut	2 = gut 3 = befriedigend rundlage(n) F(ail) = entspricht nicht	4 = ausreichend		nangelhaft	
Legend: 1 = very good	2 = good 3 = satisfactory	4 = sufficient	5 = p	oor	
P(ass) = passed a.m. test speci	ification(s) F(ail) = failed a.m. test s ieht sich nur auf das o.g. Prüfn	specification(s) N/A = not ap		= not tested	
auszugsweise vervie This test report only relates	leht sich nur auf das o.g. Prüfn Iffältigt werden. Dieser Bericht to the a. m. test sample. Without plicated in extracts. This test rep	berechtigt nicht zur Ver t permission of the test cer	wendung eine nter this test rep	s Prüfzeichens. port is not permitted	
Certificate registr	ation number: G3.190	07.304.1.A4		Page 4 of 5	