

CERTIFICATE

Certificate registration number: G3.1907.309.2.C3v2

Certificate holder: Hexing Electrical Co., Ltd.

Product designation: HXE110,

Hardware version: PS12EACLSSTD001-1V08 (Meter), PB-01002-0V04 (Module),

Firmware version 5.0

Certification date: August 15th, 2019

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 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	50263309 004

The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform ENIGMA with certificate no. G3.1805.211.1.C3. 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 August 15th, 2019.

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, August 15th, 2019

For the G3-PLC Alliance:

Marc Delandre Chairman WILLS

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	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	FALSE	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 (1/2)

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

Operating voltage applied for certification testing was 220V / 50Hz.

Value Unit

PICS related to performance are available are available through vendor only.	
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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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PICS related to performance are available through vendor only.

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Annex 3: Copy of test report cover sheet

Products



Fioducis					
Prüfbericht-Nr.: Test Report No.:	50263309 004	Auftrags-Nr.: Order No.:	450440700	ite 1 von <i>of</i> 42 ge 1 von <i>of</i> 42	
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftrags Order da		1	
Auftraggeber:	Hexing Electric	cal Co., Ltd.			
Client:	1418 Moganshan Road, Shangcheng Industrial Zone, 310011, Hangzhou City, China				
Gegenstand der Prüfung: Test item:	1-phase meter (FCC PAN Device)				
Bezeichnung / Typ-Nr.: Identification / Type No.:	HXE110				
Auftrags-Inhalt: Order content:	G3-PLC Certific	cation Test			
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 G3-PLC Perfor	rmance L1-L2 Tests S Interoperability Tests mance Test Suite Spe cation Test Procedure	Suite Specification vicification v0.23		
Wareneingangsdatum: Date of receipt:	2019-06-07		1		
Prüfmuster-Nr.: Test sample No.:	A000946858		GJ-PLC Module NET FO	orto 🌏	
Prüfzeitraum: Testing period:	2019-06-17 - 20	019-06-19			
Ort der Prüfung:	TÜV Rheinland	I Japan Ltd.	HXETTS address 18 CE Mile 2290		
Place of testing:	Global Technological		80 42902-91 80 42902-91 0.1 80 42902-92 0.2 No.20180002		
	Assessment Ce		Reamy Electroni So. Ltd. Made in China 2018	- F	
	Kita-Yamata, Ts		-		
	Yokohama 224-	-0021, Japan	2222	9 0	
Prüflaboratorium: Testing laboratory:	TÜV Rheinland	Japan Ltd.	9 646 9	3	
Prüfergebnis:	The test item pa	assed the	V man -	-14	
Test results:	test specification				
Geprüft von		Kontroll	iert von		
	Man	Reviewe	d by:	Studying	
	0-			0	
2019-08-13, Tam Tran Tha	nh		3, Atsuhiro Endo		
Tested by: 2019-08-13, Tam Tran Tha Datum Name / P Date Name / P	nh tellung Unters	chrift Datum	3, Atsuhiro Endo Name / Stellung Name / Position	Unterschri Signature	

This is correction report for report number 50263309 003. The client requested to change "Hardware" under "1.2 General DUT Information" on page 4

from: PS12EACLSSTD001-1V08

to: PS12EACLSSTD001-1V08 (Meter), PB-01002-0V04 (Module)

 Zustand des Prüfgegenstandes bei Anlieferung:
 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(aii)
 = 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(aii)
 = 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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