



C E R T I F I C A T E

Certificate registration number: G3.1808.229.2.C3

Certificate holder: Hexing Electrical Co., Ltd.

Product designation: HXE130,
Hardware version PM12EFALSRN1001-1V02, Firmware version 5.0

Certification date: August 24th, 2018

This certificate indicates the above mentioned product successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017).

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 July 2018. 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, interoperability and performance testing according to the test specification referenced by the test report; TÜV Rheinland Japan; 50153647 001

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 24th, 2018.

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 24th, 2018

For the G3-PLC Alliance:

Signature of Bernard Lassus
Bernard Lassus
Chairman

Signature of Madeleine Francillard

Madeleine Francillard
Chair Certification Program





# Annex 2: 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_MODULATION	FALSE	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_COEXISTENCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT.

Handwritten initials: *ll* *lc*





# 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 230V/50Hz.

Name	Value	Unit	Description
<p>PICS related to performance are available through vendor only.</p>			



# Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

Name	Value	Unit	Description
<p>PICS related to performance are available through vendor only.</p>			



## Annex 3: Copy of test report cover sheet

Produkte  
Products



<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>50153647 001</b>	<b>Auftrags-Nr.:</b> Order No.:	214100537	Seite 1 von of 43 Page 1 von of 43	
<b>Kunden Referenz-Nr.:</b> Client Reference No.:	N/A	<b>Auftragsdatum:</b> Order date:	2018-06-06		
<b>Auftraggeber:</b> Client:	Hexing Electrical Co., Ltd.				
<b>Gegenstand der Prüfung:</b> Test item:	1-phase meter (FCC PAN Device)				
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	HXE130				
<b>Auftrags-Inhalt:</b> Order content:	G3-PLC Certification Test				
<b>Prüfgrundlage:</b> Test specification:	G3-PLC Conformance L1-L2 Tests Suite Specification v0.25 G3-PLC 1-to-1 Interoperability Tests Suite Specification v0.10 G3-PLC Performance Test Suite Specification v0.23 G3-PLC Certification Test Procedures v1.12				
<b>Wareneingangsdatum:</b> Date of receipt:	2018-05-28				
<b>Prüfmuster-Nr.:</b> Test sample No.:	A000748377				
<b>Prüfzeitraum:</b> Testing period:	2018-07-03 - 2018-07-05				
<b>Ort der Prüfung:</b> Place of testing:	TUV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan				
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland Japan Ltd.				
<b>Prüfergebnis:</b> Test results:	The test item passed the test specification(s).				
<b>Geprüft von</b> Tested by:		<b>Kontrolliert von</b> Reviewed by:			
2018-07-10, Tam Tran Thanh		2018-07-13, Atsuhiko Endo			
<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position	<b>Unterschrift</b> Signature	<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position	<b>Unterschrift</b> Signature
<b>Sonstiges / Other Aspects:</b>					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:			<b>Prüfmuster vollständig und unbeschädigt</b> Test item complete and undamaged		
<p>*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</p>					
<p><b>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.</b>                  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</p>					