

Certificate registration number: G3.2201.485.2.A5

Certificate holder: Hexing Electrical Co., Ltd.

Product designation: HXEJ200, Hardware version PB-01181-0V05 (Data concentrator), PB-00976-0V05 (Module), Firmware version 5.0

Certification date: January 24th 2022

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 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 TÜV Rheinland in Yokohama, Japan in December 2021 -January 2022. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Performance testing according to the test specification referenced by the test report	TÜV Rheinland Japan	JP218GIX 001

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The data concentrator is equipped with the G3-PLC certified platform SMG-EV51-A1-EV8000 with certificate no. G3.2002.375.1.A4v2. 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 January 24th 2021.

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, January 24th 2021

For the G3-PLC Alliance:

Marc Delandre Chairman

Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at https://www.g3-plc.com/g3-plc-certification/

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Annex 1: Protocol Implementation Conformance Statement (PICS)

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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_MODULAT	TRUE	Indicate if coherent modulation is supported.
	TRUE	Indicate if an EAP-PASK server is implemented by the DUT.
FEATURE_EAP_SERVER		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)

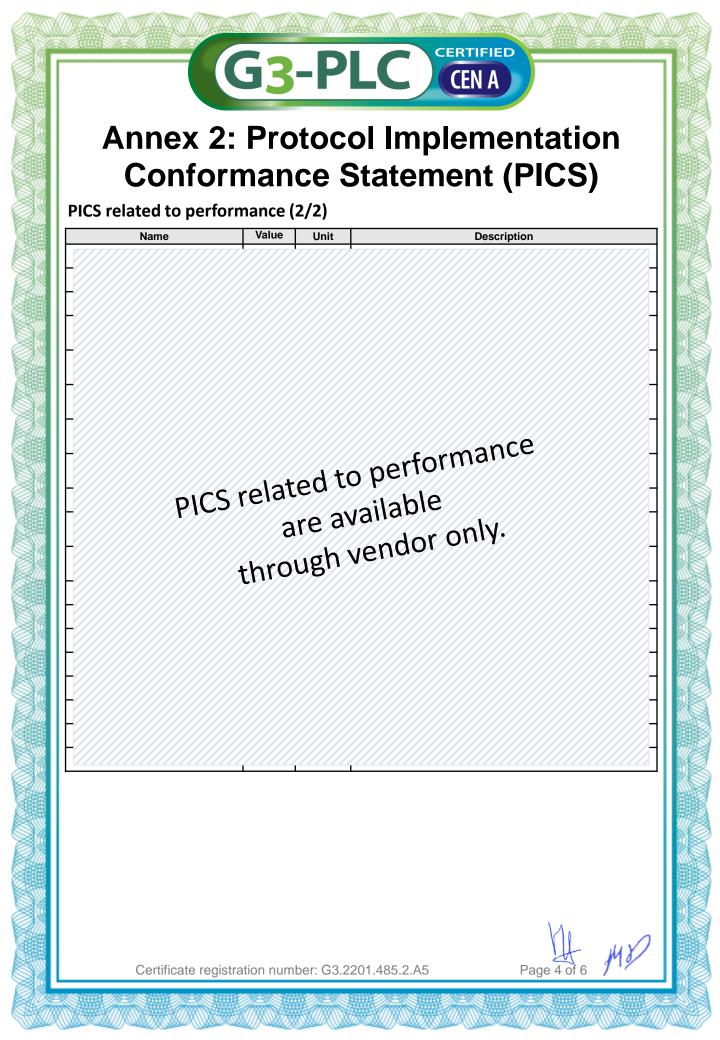
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PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 3-phase data concentrator communicating on 1 phase. Testing was performed on phase 1.

Operating voltage applied for certification testing was 3AC400V (3x230V L-N)/50Hz.

Name Value Unit Description PICS related to performance are available through vendor only. I me Certificate registration number: G3.2201.485.2.A5 Page 3 of 6



Annex 3: Copy of test report cover sheet

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Prüfbericht - Produkte Test Report - Products			🛕 TÜVRh	einland®
Prüfbericht-Nr.: Test report no.:	JP218GIX 001	Auftrags-Nr.: Order no.:	150250140 10	Seite 1 von 49 Page 1 of 49
Kunden-Referenz-Nr.: Client reference no.:	HXEJ200	Auftragsdatum: Order date:	2021-12-17	
Auftraggeber: Client:	Hexing Electrical Co., Ltd. 1418 Moganshan Road, Sha	ingcheng Industrial	Zone, 310011,Hangz	hou City, China
Prüfgegenstand: Test item:	Data concentrator			
Bezeichnung / Typ-Nr.: Identification / Type no.:	HXEJ200			
Auftrags-Inhalt: Order content:	G3PLC			
Prüfgrundlage: Test specification:	G3 PLC Conformance Tests G3-PLC 1-to-1 Interoperabili G3-PLC Performance Test S G3-PLC Certification Test Pr	ty Tests Specification v	on v0.13	
Wareneingangsdatum: Date of sample receipt:	2021-12-23			
Prüfmuster-Nr.: Test sample no:	A003190911-001 to 002	127	HEXING	
Prüfzeitraum: Testing period:	2021-12-28 – 2022-01-07		HOLE200 0 Subserving Street of Stre	
Ort der Prüfung: Place of testing:	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan Ltd.		Inninie	
Prüfergebnis*: Test result*:	Pass		<u> </u>	5
geprüft von: tested by:	1.7.	genehmigt von: authorized by:		
Datum: Date: 2022-01-13	Martin Zietz	Ausstellungsdat Issue date: 2022		raite
Stellung / Position:	Tester	Stellung / Positio	,	
Sonstiges / Other:				
Zustand des Prüfgegens Condition of the test item	at delivery:	Test item complet	indig und unbeschädi e and undamaged	-
* Legende: P(ass) = entspricht c * Legend: P(ass) = passed a.m		nicht o.g. Prüfgrundlage(n) test specification(s)	N/A = nicht anwendbar N/A = not applicable	N/T = nicht getestet N/T = not tested
auszugsweise vervielfältigt This test report only relates to	sich nur auf das o.g. Prüfmuster werden. Dieser Bericht berechtig the a.m. test sample. Without per st report does not entitle to carry a	gt nicht zur Verwend rmission of the test ce	lung eines Prüfzeiche	ns.
vos TÜV Rheinland Japan Lto	I., Global Technology Assessment Cen Mail: g3plc@tuv.com		Tsuzuki-ku Yokohama 224	1-0021, Japan
Certificate regist	ration number: G3.220		Pa	≥ ge5of6