



C E R T I F I C A T E

Certificate registration number: G3.2302.562.2.C6

Certificate holder: Wasion Group Limited

Product designation: aMeter100,
Hardware version V1.0, Firmware version 3.05.04

Certification date: February 3rd 2023

This certificate indicates the above-mentioned product successfully completed certification testing with regards to the G3-PLC Alliance reference specification 06/2021. 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 January 2023. 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	JP23IQJZ 001

The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform REL-G3PLC-CPX3+TRG with certificate no. G3.2204.507.1.C6. Modifications of the platform that are not related to the G3-PLC protocol have been done by the platform manufacturer. 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 February 3rd 2023.

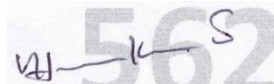
The certificate is only applicable to the product described above and permits the use of the G3-PLC™ logo as laid down in the G3-PLC logo license agreement.

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, February 3rd 2023

For the G3-PLC Alliance:


Marc Delandre
Chairman


562 S

Madeleine Francillard
Chair Certification Program1



Annex 1: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

Name	Value	Description
BAND_PLAN	FCC	Indicate the band-plan supported by the device
BAND_PLAN_RF	N/A	Indicate the RF band plan(s) supported by the device
FEATURE_HYBRID_RF	FALSE	Indicate if Hybrid PLC&RF feature is supported
FEATURE_PAN_COORDINATOR	FALSE	Indicate if the device is a PAN-Coordinator (true) or a normal device (false)
FEATURE_COHERENT_MODULATION	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	Indicate if D8PSK modulation is supported
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





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 AC230V / 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

Prüfbericht - Produkte <i>Test Report - Products</i>			
Prüfbericht-Nr.: <i>Test report no.:</i>	JP23IQJZ 001	Auftrags-Nr.: <i>Order no.:</i>	150268429 20 Seite 1 von 58 Page 1 of 58
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	aMeter100	Auftragsdatum: <i>Order date:</i>	2022-12-30
Auftraggeber: <i>Client:</i>	Wasion Group Limited No.468 West Tongzipo Road, High-Tech Industrial Development Zone, Changsha City, Hunan Province, P. R. China		
Prüfgegenstand: <i>Test item:</i>	1 phase 2 wire Smart Energy Meter (FCC)		
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	aMeter100		
Auftrags-Inhalt: <i>Order content:</i>	G3-PLC Certification Test		
Prüfgrundlage: <i>Test specification:</i>	G3-PLC Alliance - Conformance Tests Suite Specification - v0.37 G3-PLC Alliance - 1to1-PHY-Interoperability-Tests-Specification-v0.14 G3-PLC Alliance - Performance Test Suite Specification - v0.27 G3-PLC Certification Test Procedures version 6.02		
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-12-13		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003388870-002		
Prüfzeitraum: <i>Testing period:</i>	2023-01-06 - 2023-01-11		
Ort der Prüfung: <i>Place of testing:</i>	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan		
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Japan Ltd.		
Prüfergebnis*: <i>Test result*:</i>	Pass		
geprüft von: <i>tested by:</i>	 Martin Zietz	genehmigt von: <i>authorized by:</i>	 Shuji Saito
Datum: <i>Date:</i>	2023-01-23	Ausstellungsdatum: <i>Issue date:</i>	2023-01-23
Stellung / Position:	Tester	Stellung / Position:	Reviewer
Sonstiges / Other:			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>	
<small>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</small>			
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. <i>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.</i>			
<small>105 TÜV Rheinland Japan Ltd., Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan Mail: g3plc@tuv.com · Web: www.tuv.com/</small>			