

CERTIFICATE

Certificate registration number: G3.1908.313.2.C3

Certificate holder: Holley Technology Ltd.

Product designation: DTSD545,

Hardware version HL 17-X040, Firmware version V6.0.2.65 6.0.0.2

Certification date: August 19th, 2019

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 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	50249510 001

The device tested is a G3-PLC FCC 3-phase meter. The meter is equipped with the G3-PLC certified platform Vango PLC V630x+V600x with certificate no. G3.1810.251.1.C3. 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 August 19th, 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 19th, 2019

For the G3-PLC Alliance

Marc Delandre Chairman



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Madeleine Francillard Chair Certification Program

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

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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	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_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 3-phase meter communicating on 3 phases. Testing was performed on phase 1.

Operating voltage applied for certification testing was 230V L-N (400V L-L) / 50Hz.

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Description

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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

Name	Value	Unit	Description
PICS	relat	ed t	o performance
	a	re a	vailable
	thro	ugh	vendor only.

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Annex 3: Copy of test report cover sheet

Produkte



Products		TUV Rheinland®		
Prüfbericht-Nr.: Test Report No.:	50249510 001	Auftrags-Nr.: Seite 1 von of 41 Order No.: 150111158 Page 1 von of 41		
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: 2019-04-24 Order date:		
Auftraggeber:	Holley Technology	Ltd.		
Client:	No.181, Wuchang A P. R. China	Avenue, Yuhang District, Hangzhou, 310023,		
Gegenstand der Prüfung Test item:	3-phase meter (FCC	3-phase meter (FCC PAN Device)		
Bezeichnung / Typ-Nr.: Identification / Type No.:	DTSD545			
Auftrags-Inhalt: Order content:	G3-PLC Certificatio	n Test		
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Inter G3-PLC Performan	nce L1-L2 Tests Suite Specification v0.25 operability Tests Suite Specification v0.10 ce Test Suite Specification v0.23 n Test Procedures v1.13		
Wareneingangsdatum: Date of receipt:	2019-05-13			
Prüfmuster-Nr.: Test sample No.:	A000968178	HOURY == 07		
Prüfzeitraum: Testing period:	2019-07-26 – 2019-0	17-30		
Ort der Prüfung: Place of testing:	TÜV Rheinland Jap Global Technology Assessment Center Kita-Yamata, Tsuzuk Yokohama 224-0021	4-25-2		
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japa	in Ltd.		
Prüfergebnis: Test results:	The test item passed test specification(s).	I the		
Geprüft von Tested by:	Man	Kontrolliert von Reviewed by: Murgay		
2019-08-02, Tam Tran Th		2019-08-06, Atsuhiro Endo		
Datum Name / Name /	Stellung Unterschrift Position Signature	Datum Name / Stellung Unterschrift Date Name / Position Signature		
Sonstiges / Other Aspects	5.			
Zustand des Prüfgegens Condition of the test item a		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(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

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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