

CERTIFICATE

Certificate registration number: G3.2001.370.2.C4

Certificate holder: Hangzhou Vango Technologies, Inc.

Product designation: VT6306P3D01,

Hardware version VTPLCT_Dual_630x, Firmware version V6.1.3.65_6.0.0.3

Certification date: January 31st, 2020

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 January 2020. 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	50334659 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. G3.1909.318.1.C4. 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 31st, 2020.

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 31st, 2020

For the G3-PLC Alliance:

Marc Delandre Chairman M-Jr-2

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 220V L-N (380V L-L) / 60Hz.

Ivaille	value	Offic	Description
PICS	relat	ed to	o performance vailable vendor only.
	thro	ugh '	vendor

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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



igwedge **TÜV**Rheinland $^{ ext{@}}$

Products			Villelillallu	
Prüfbericht-Nr.: Test Report No.:	50334659 001	Auftrags-Nr.: Order No.: 15011975	Seite 1 von of 41 Page 1 von of 41	
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: 20 Order date:	20-01-09	
Auftraggeber:	Hangzhou Vango Technologies Inc.			
Client:	368 Liuhe Rd, Ste B40 China	04, North Bldg, Hi-Tech Pa	rk, Binjiang, Hangzhou,	
Gegenstand der Prüfung: Test item:	G3-PLC FCC 3-phase	meter		
Bezeichnung / Typ-Nr.: Identification / Type No.:	VT6306P3D01			
Auftrags-Inhalt: Order content:	G3-PLC Certification	Гest		
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Interop	L1-L2 Test Suite Specifica erability Test Suite Specifi Test Suite Specification v0 Fest Procedures v1.14	cation v0.13	
Wareneingangsdatum: Date of receipt:	2020-01-14	6	•	
Prüfmuster-Nr.: Test sample No.:	A001061644		3	
Prüfzeitraum: Testing period:	2020-01-14 – 2020-01-1	16		
Ort der Prüfung: Place of testing:	TÜV Rheinland Japan Global Technology Assessment Center 4-2: Kita-Yamata, Tsuzuki-ki Yokohama 224-0021, Ja	5-2	The second secon	
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan L	td.		
Prüfergebnis: Test results:	The test item passed the test specification(s).	ne e		
Geprüft von Tested by:	Man	Kontrolliert von Reviewed by:	Munitar	

2020-01-28, Tam Tran Thanh

2020-01-28, Atsuhiro Endo Datum Name / Stellung

Datum Name / Stellung Unterschrift Unterschrift Name / Position Name / Position Signature Date Signature

Sonstiges / Other Aspects:

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged

*Legende: 1 = sehr gut 3 = befriedigend 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 2 = aood3 = satisfactory 4 = sufficient Legend: 1 = verv good5 = poorP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable

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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