

CERTIFICATE

Certificate registration number: G3.2001.371.2.C4

Certificate holder: Hangzhou Vango Technologies, Inc.

Product designation: VT6306J1D01,

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-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 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	50334666 001

The device tested is a G3-PLC FCC 3-phase data concentrator. The device is equipped with the G3-PLC certified platform Vango PLC V630x+V600x with certificate no. G3.1909.319.1.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 N4-14-5

Madeleine Francillard Chair Certification Program



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

Page 1 of 6



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	TRUE	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	TRUE	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 JUT.		

1

My



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

Name

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

Operating voltage applied for certification testing was 220V L-N (380V L-L) / 60Hz.

Value Unit

My MD

Description

Certificate registration number: G3.2001.371.2.C4

Page 3 of 6



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.

Page 4 of 6

Certificate registration number: G3.2001.371.2.C4



Annex 3: Copy of test report cover sheet

Produkte Products



Products					momana		
Prüfbericht-Nr.: Test Report No.:	503346	666 001	Auftrags-Nr.: Order No.:	150119758	Seite 1 von of 41 Page 1 von of 41		
Kunden Referenz-N Client Reference No.	N/A	N/A Auftragsdatum: 2020-01-09 Order date:					
Auftraggeber:	•	Hangzhou Vango Technologies Inc. 368 Liuhe Rd, Ste B4004, North Bldg, Hi-Tech Park, Binjiang, Hangzhou,					
Oliotti.	Chin		, itorin biag,	m-reem rank, b	injiang, nangznoa,		
Gegenstand der Pro	üfung: G3-F	PLC FCC Data Co	ncentrator				
Bezeichnung / Typ- Identification / Type		306J1D01					
Auftrags-Inhalt: Order content:	G3-P	LC Certification	Test				
Prüfgrundlage: Test specification:	G3-P G3-P	PLC Conformance PLC 1-to-1 Interop PLC Performance PLC Certification	erability Test S Test Suite Spec	uite Specificatio cification v0.27	v0.30 n v0.13		
Wareneingangsdate Date of receipt:	um: 2020	-01-14		· 01			
Prüfmuster-Nr.: Test sample No.:	A001	061644		1			
Prüfzeitraum: Testing period:	2020-	-01-16 – 2020-01-2	20	100	780		
Ort der Prüfung: Place of testing:	Globa Asse: Kita-	Rheinland Japan al Technology ssment Center 4-2 /amata, Tsuzuki-k hama 224-0021, J	5-2 u	The second secon	- Colon Colon - Colon Colo		
Prüflaboratorium: Testing laboratory:	TÜV	Rheinland Japan L	td.	e	PREPER @		
Prüfergebnis: Test results:		est item passed the pecification(s).	ne	SEREFEE	C		
Geprüft von Tested by:		Man	Kontrollie Reviewed		Sturitar		
2020-01-28, Tam Tra	an Thanh	0-	2020-01-2	8, Atsuhiro Endo			
	ame / Stellung ame / Position	Unterschrift Signature	Datum Date	Name / Stellu Name / Positio			

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 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 = good3 = 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

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

Certificate registration number: G3.2001.371.2.C4

Page 5 of 6