

Certificate registration number: G3.1905.292.1.C4

Certificate holder: Hitrend Technology (Shanghai) Co., LTD

Platform designation: HT-G3-FCC, Hardware version VER.A.01.00_0913, Firmware version 0.1.00

Certification date: May 17th, 2019

This certificate indicates the above mentioned platform 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 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 April 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	50227565 002

The device tested is a G3-PLC platform: a solution providing an implementation of the G3-PLC specification. 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 May 17th, 2019.

The certificate is only applicable to the platform 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, May 17th, 2019

For the G3-PLC Alliance:

Marc Delandre Chairman



Madeleine Francillard Chair Certification Program



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

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Annex 1: Protocol Implementation Conformance Statement (PICS)

G3-PLC FCC

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

G3-PLC FCC

PICS related to performance

The device tested is a G3-PLC FCC platform. Operating voltage applied for certification testing was 220V / 50Hz.

Name	Value	Unit	Descrip	tion		
PICS	relat a thro	ed to re av ugh '	o performano vailable vendor only.	je		
Certificate registr	ation num	her: G3 1	905 292 1 C4	Page 3 d	MD of 5	
	alion num	ber: G3.1	903.292.1.04	Page 3 (C IC	

Annex 3:

G3-PLC FCC

Copy of test report cover sheet

Produkte Products		_		Δ	TÜV R	heinland®
Prüfbericht-Nr.: Test Report No.:	5022	27565 002	Auftrags-Nr.: Order No.:	: 150	407700	Seite 1 von <i>of</i> 41 <i>Page</i> 1 von <i>of</i> 41
Kunden Referenze Client Reference N		I/A	Auftrags Order dat		^{1:} 2019-02-	22
Auftraggeber: Client:		litrend Technology Building 16, Zhangd			g New Area.	Shanghai. China
Gegenstand der F Test item:	with the second	3-PLC FCC Platfor			<u>.</u>	
Bezeichnung / Ty Identification / Type		IT-G3-FCC				
Auftrags-Inhalt: Order content:	G	3-PLC Certificatior	n Test			
Prüfgrundlage: Test specification:	0	33-PLC Conformand 33-PLC 1-to-1 Intero 33-PLC Performanc 33-PLC Certificatior	perability Test Second	Suite S ecificat	Specification tion v0.27	
Wareneingangsda Date of receipt:	atum: 20	019-04-08		0		
Prüfmuster-Nr.: Test sample No.:	A	000912526				
Prüfzeitraum: Testing period:	2	019-04-15 – 2019-04	-16			
Ort der Prüfung: Place of testing:	G A K	ÜV Rheinland Japa lobal Technology ssessment Center 4- ita-Yamata, Tsuzuki- okohama 224-0021,	-25-2 ku			
Prüflaboratorium: Testing laboratory:	Т	ÜV Rheinland Japan	Ltd.			
Prüfergebnis: Test results:		he test item passed est specification(s).	the	0		
Geprüft von Tested by:		Man	Kontrolli Reviewe		n	Sturger
2019-04-25, Tam T Datum	ran Thanh Name / Stellung	-			uhiro Endo	u Unterechnift
Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date		lame / Stellung lame / Position	
Sonstiges / Other	Aspects:					
Zustand des Prüfe Condition of the tes					ständig und ete and undan	unbeschädigt naged
*Legende: 1 = sehr gu P(ass) = entspricht o.g Legend: 1 = very go P(ass) = passed a.m. te	g. Prüfgrundlage(n) bod $2 = good$	3 = befriedigend F(ail) = entspricht nicht 3 = satisfactory F(ail) = failed a.m. test sp	4 = sufficier) N/A = nt	nicht anwendba 5 = pc	-
Dieser Prüfberic auszugsweise	ht bezieht sich n vervielfältigt we	ur auf das o.g. Prüfm rden. Dieser Bericht b	uster und darf oh berechtigt nicht zu	ne Gen Ir Verw	ehmigung der endung eines	r Prüfstelle nicht Prüfzeichens.
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Annex 4: Additional details of the certified platform

G3-PLC FCC

Platform model name:	HT-G3-FCC		
Platform hardware version:	VER.A.01.00_0913		
Platform firmware version:	0.1.00		
Exact part number of all the chips running G3-PLC stack in the certified platform:	HT8922		
What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:	PHY, LowerMAC, 6LoWPAN, ADP		
Hardware version of this chip:	0x035886_8922_01		
Software version running on this chip:	0.1.00		
Internal CPU frequency:	24 MHz		

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