

Certificate registration number: G3.2208.529.1.C6

Certificate holder: Hi-Trend Technology (Shanghai) Co., Ltd.

Platform designation: HT8922, Hardware version 0x035886_8922_01, Firmware version V2.2.01

Certification date: August 2nd 2022

This certificate indicates the above mentioned platform successfully completed certification testing with regards to the G3-PLC Alliance reference specification 06/2021. The optional features Hybrid PLC&RF and coherent mode of the G3-PLC protocol are also covered by this certification.

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 July 2022. 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	JP22SXWG 002

The device tested is a G3-PLC Hybrid PLC&RF 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 August 2nd 2022.

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, August 2nd 2022

For the G3-PLC Alliance:

Marc Delandre Chairman



Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at https://g3-plc.com/g3-plc-certification/certified-platforms/ Page 1 of 5

Annex 1: Protocol Implementation Conformance Statement (PICS)

G3-PLC F(C ())

Feature implementation statement

Name	Value	Description		
BAND_PLAN	FCC	Indicate the band-plan supported by the device.		
	863-870_SingleCarrier_Mode#1			
	863-870_SingleCarrier_Mode#2			
BAND_PLAN_RF	865-868_SingleCarrier_Mode#1	Indicate the RF band plan(s)		
DAND_FLAN_KF	865-868_SingleCarrier_Mode#2	supported by the device		
	870-876_SingleCarrier_Mode#1			
	870-876_SingleCarrier_Mode#2			
FEATURE_HYBRID_RF	TRUE	Indicate if Hybrid PLC&RF feature is supported.		
FEATURE_PAN_ COORDINATOR	TRUE	Indicate if the device is a PAN- Coordinator (true) or a normal device (false).		
FEATURE_COHERENT_ MODULATION	TRUE	Indicate if coherent modulation is supported.		
		Indicate if an EAP-PASK server is implemented by the DUT.		
FEATURE_EAP_SERVER	TRUE	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.		

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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. Testing was performed on phase 1. Operating voltage applied for certification testing was 230V/50Hz .

Name		Value	Unit	Descriptior	n	
	pics r	elat a thro	ed to re av ugh '	o performance vailable vendor only.		
					EA.	Mo
Certific	ate registra	tion num	ber: G3.2	208.529.1.C6 Pa	age 3 of 5	

Annex 3:

G3-PLC F(C III)

Copy of test report cover sheet

Prüfbericht-Nr.: Test report no.:	JP22SXWG 002	Auftrags-Nr.: Order no.:	150256794 1	•	eite 1 von 52 Page 1 of 52
Kunden-Referenz-Nr.: Client reference no.:	HT8922	Auftragsdatum: Order date:	2022-02-09		
Auftraggeber: Client:	Hi-Trend Technology (Shang Building No.16, No.1388, Zh		nanghai, 201203	3, China	
Prüfgegenstand: Test item:	G3-PLC Platform (PAN Coordinator, FCC)				
Bezeichnung / Typ-Nr.: Identification / Type no.:	HT8922				
Auftrags-Inhalt: Order content:	G3-PLC Certification Test				
Prüfgrundlage: Test specification:	G3-PLC Alliance - Conforma G3-PLC Alliance - 1to1-PHY G3-PLC Alliance - Performar G3-PLC Certification Test Pr G3-PLC Alliance - Hybrid PL G3-PLC Alliance - 1to1-PHY	-Interoperability-To nce Test Suite Spe rocedures version .C&RF - Conforma	ests-Specificatio cification - v0.2 6.02 nce Tests Suite	on-v0.14 7 Specificatio	n - v0.10
Wareneingangsdatum: Date of sample receipt:	2022-06-30			A	
Prüfmuster-Nr.: Test sample no:	A003291105-001 to 015			Co	
Prüfzeitraum: Testing period:	2022-07-20 - 2022-07-25				
Ort der Prüfung: Place of testing:	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan Ltd.			500	
Prüfergebnis*: Test result*:	Pass		HT-PANC-	-FCC	
geprüft von: tested by: Datum:	13	genehmigt von: authorized by: Ausstellungsda		. Gai	to
Date: 2022-08-01	Martin Zietz	Issue date: 202		uji Saito	
Stellung / Position:	Tester	Stellung / Positi	on: Re	viewer	
Sonstiges / Other.	Corrigendum to test report Jl description on this page have			me and test i	tem
Zustand des Prüfgegens Condition of the test item	at delivery:	Prüfmuster vollst Test item comple	ete and undama	ged	
* Legende: P(ass) = entspricht o * Legend: P(ass) = passed a.m		nicht o.g. Prüfgrundlage(n test specification(s)	N/A = nicht anw N/A = not applic		= nicht getestet = not tested
auszugsweise vervielfältigt This test report only relates to	ich nur auf das o.g. Prüfmuster werden. Dieser Bericht berechti the a.m. test sample. Without per st report does not entitle to carry a	und darf ohne Gen gt nicht zur Verwer rmission of the test c	ehmigung der P dung eines Prüf	rüfstelle nich zeichens.	it j
TÜV Rheinland Japan Ltd	., Global Technology Assessment Cen	ter 4-25-2 Kita-Yamata • Web: www.tuv.com/	, Tsuzuki-ku Yokoh	ama 224-0021,	Japan

Annex 4: Additional details of the certified platform

G3-PLC F(C III)

Platform model name:	HT8922		
Platform hardware version:	0x035886_8922_01		
Platform firmware version:	V2.2.01		
Exact part number of all the chips running G3-PLC stack in the certified platform:	Chip #1: HT8922	Chip #2: Si4463	
What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:	PHY, lowerMAC, ADP	РНҮ	
Hardware version of this chip:	A	C2	
Software version running on this chip:	V2.2.01	V1.0	
Internal CPU frequency:	24 MHz	30 MHz	
	14	Mo	

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