



C E R T I F I C A T E

Certificate registration number: G3.2202.492.2.C5

Certificate holder: TR Group (Pty) Ltd

Product designation: XL521,
Hardware version 521, Firmware version V6.1.3.65_6.0.0.3

Certification date: February 11th, 2022

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 Laboratoire des Applications Numériques (LAN) in Tauxigny, France January 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	Laboratoire des Applications Numériques (LAN)	LAN20AF004

The device tested is a G3-PLC FCC 1-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 February 11th 2022.

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, February 11th 2022

For the G3-PLC Alliance:

Marc Delandre
Chairman

Madeleine Francillard
Chair Certification Program



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_MODULATION	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_COEXISTENCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT.





Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

The device tested is a G3-PLC FCC 1-phase meter.
Testing was performed on phase 1.

Operating voltage applied for certification testing was 230V/50Hz.

Name	Value	Unit	Description
<p>PICS related to performance are available through vendor only.</p>			



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

Name	Value	Unit	Description
<p>PICS related to performance are available through vendor only.</p>			

Annex 3: Copy of test report cover sheet



G3-PLC Certification Test Report			
(Pty) Ltd	XL521 HW:521 FW: V6.1.3.65_6.0.0.3		
LAN20AF004	Ed.00	February 10, 2022	Page 1/47

G3-PLC Alliance
G3-PLC Product Certification Test Report

Vendor Name	TR Group (Pty) Ltd		
Model Name	XL521		
Serial N°	81118159615		
HW version	521		
FW version	V6.1.3.65_6.0.0.3		
Test Report #	TR_LAN20AF004 Ed.00		
Date	February 10, 2022		
CONF Tests Specification	version 0.32.	15/03/2021	
CONF Tests Suite	version 2.11.p2.	04/2021	
IOT Tests Specification	version 0.13.	28/12/2018	
IOT Tests Suite	version 2.6.p2.	03/2021	
PERF Tests Specification	version 0.27.	05/03/2019	
PERF Tests Suite	version 2.11.p2.	04/2021	
Test Tool	version 2.3		
Tester Modem	version 2.0		
Certification Test Procedures	version 2.0	12/04/2021	
Certification Profile	C (FCC)		
Role	Meter		
Overall Verdict	PASS		



Initiation	Date	Description of modification	Ed.
Omar DIOUF	February 10, 2022	Creation	00

Name	Realised by	Checked by	Approved by
	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
	February 10, 2022	February 10, 2022	February 10, 2022
Sign			

The current report and the test results produced in this current are given for information only and must not be relied on by any third person for any reason. This report contains an assessment of the apparatus carried out on samples submitted to the laboratory. The results in this report relate only to the items tested and were obtained in the period between the initial receipt of samples and the issue of the report. It should be noted that technical hardware or software modifications on the apparatus may impact the results reported in this document.