



C E R T I F I C A T E

Certificate registration number: G3.2102.427.1.A4

Certificate holder: Qingdao Eastsoft Communication Technology Co., Ltd.

Platform designation: ESPLC-CEN,
Hardware version ESDS55-61-HW(v1.1), Firmware version ESG3SD-V000201

Certification date: February 23rd, 2021

This certificate indicates the above mentioned platform successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017).

The certificate applies to certification profile CENELEC A 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 February 2021. 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	JP21UG5D 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 February 23rd, 2021.

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, February 23rd, 2021

For the G3-PLC Alliance:

Marc Delandre
Chairman

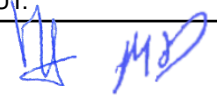
Madeleine Francillard
Chair Certification Program



Annex 1: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

Name	Value	Description
BAND_PLAN	CENELEC A	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




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

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

Annex 3: Copy of test report cover sheet

Produkte
Products



Prüfbericht-Nr.: Test Report No.: JP21UG5D 002		Auftrags-Nr.: Order No.: 150238386		Seite 1 von of 39 Page 1 von of 39	
Kunden Referenz-Nr.: Client Reference No.: N/A		Auftragsdatum: Order date: 2021-01-22			
Auftraggeber: Client: Qingdao Eastsoft Communication Technology Co., Ltd. 16A Shangqing Road, Qingdao 266023, China					
Gegenstand der Prüfung: Test item: G3-PLC CENELEC-A Platform (PAN Device)					
Bezeichnung / Typ-Nr.: Identification / Type No.: ESPLC-CEN					
Auftrags-Inhalt: Order content: G3-PLC Certification Test					
Prüfgrundlage: Test specification: G3-PLC Conformance L1-L2 Test Suite Specification v0.30 G3-PLC 1-to-1 Interoperability Test Suite Specification v0.13 G3-PLC Performance Test Suite Specification v0.27 G3-PLC Certification Test Procedures v1.14					
Wareneingangsdatum: Date of receipt: 2021-01-28					
Prüfmuster-Nr.: Test sample No.: A002999132					
Prüfzeitraum: Testing period: 2021-02-01 – 2021-02-02					
Ort der Prüfung: Place of testing: TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan					
Prüflaboratorium: Testing laboratory: TÜV Rheinland Japan Ltd.					
Prüfergebnis: Test results: The test item passed the test specification(s).					
Gepüft von Tested by: 		Genehmigt von Authorized by: 			
2021-02-15, Tam Tran Thanh		2021-02-15, Atsuhiko Endo			
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Ausstelldatum Issue Date	Name / Stellung Name / Position	Unterschrift Signature
Sonstiges / Other Aspects:					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:			Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>*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</p> <p>Legend: 1 = very good 2 = good 3 = 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 N/T = not tested</p>					
<p>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</p>					



Annex 4: Additional details of the certified platform

Platform model name:	ESPLC-CEN
Platform hardware version:	ESDS55-61-HW(v1.1)
Platform firmware version:	ESG3SD-V000201
Exact part number of all the chips running G3-PLC stack in the certified platform:	SSC1655NQ
What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack:	PHY, MAC and 6LowPAN
Hardware version of this chip:	Version A
Software version running on this chip:	ESG3SD-V000201
Internal CPU frequency:	20 MHz

[Handwritten signatures]