G3-PLC CERTIFIED CEN A

CERTIFICATE

Certificate registration number: G3.2008.403.2.A4

Certificate holder: Hangzhou Sunrise Technology Co., Ltd

Product designation: ST34-CT,
Hardware version SD08BN, Firmware version V6.1.3.65_6.0.0.3

Certification date: August 18th, 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 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 July 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	60395893 001

The device tested is a G3-PLC CENELEC A 3-phase meter. The meter is equipped with the G3-PLC certified platform Vango PLC V630x+V600x with certificate no. G3.1909.316.1.A4. 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 18th, 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, August 18th, 2020

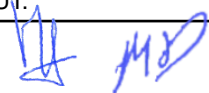For the G3-PLC Alliance:

Marc Delandre
Chairman

Madeleine Francillard
Chair Certification Program

G3-PLC Alliance

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 (1/2)

The device tested is a G3-PLC CENELEC A 3-phase meter, communicating on 3 phases. Testing was performed on phase 1.

Operating voltage applied for certification testing was 220V L-N (380V L-L)/50Hz.

Name	Value	Unit	Description

PICS related to performance are available through vendor only.

Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

Name	Value	Unit	Description

PICS related to performance
are available
through vendor only.

Annex 3:
Copy of test report cover sheet

Produkte / Products			

TÜVRheinland®

Prüfbericht-Nr.: / Test Report No.:	**60395893 001**	Auftrags-Nr.: / Order No.:	**150227582**	Seite 1 von of 41 / Page 1 von of 41

Kunden Referenz-Nr.: / Client Reference No.:	**N/A**	Auftragsdatum: / Order date:	**2020-07-15**

Auftraggeber: / Client:	**Hangzhou Sunrise Technology Co., Ltd** **No.9, Longtan Road, Cangqian Street,Yuhang District, Hangzhou, Zhejiang, China**

Gegenstand der Prüfung: / Test item:	**G3-PLC CENELEC-A 3-phase meter**

Bezeichnung / Typ-Nr.: / Identification / Type No.:	**ST34-CT**

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:	**2020-06-25**
Prüfmuster-Nr.: / Test sample No.:	**A002854380**
Prüfzeitraum: / Testing period:	**2020-07-24 - 2020-07-25**
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).*

Geprüft von / Tested by:		Kontrolliert von / Reviewed by:	
2020-07-30, Tam Tran Thanh		2020-07-30, Atsuhiro Endo	
Datum / Date	Name / Stellung / Name / Position	Unterschrift / Signature	
		Datum / 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