



C E R T I F I C A T E

Certificate registration number: G3.2006.395.2.A4

Certificate holder: Hangzhou Sunrise Technology Co., Ltd

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

Certification date: June 15th, 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 May and June 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	60370370 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 June 15th, 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, June 15th, 2020

For the G3-PLC Alliance:


Marc Delandre
Chairman

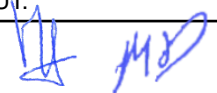

Madeleine Francillard
Chair Certification Program

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
<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

Produkte
Products



Prüfbericht-Nr.: <i>Test Report No.:</i> 60370370 001		Auftrags-Nr.: <i>Order No.:</i> 150225214		Seite 1 von 41 Page 1 von 41	
Kunden Referenz-Nr.: <i>Client Reference No.:</i> N/A		Auftragsdatum: <i>Order date:</i> 2020-05-05			
Auftraggeber: <i>Client:</i> Hangzhou Sunrise Technology Co., Ltd No.9, Longtan Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China					
Gegenstand der Prüfung: <i>Test item:</i> G3-PLC CENELEC-A 3-phase meter					
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> ST34					
Auftrags-Inhalt: <i>Order content:</i> G3-PLC Certification Test					
Prüfgrundlage: <i>Test specification:</i> 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					
Wareneingangdatum: <i>Date of receipt:</i> 2020-05-07					
Prüfmuster-Nr.: <i>Test sample No.:</i> A002838651					
Prüfzeitraum: <i>Testing period:</i> 2020-05-31 - 2020-06-06					
Ort der Prüfung: <i>Place of testing:</i> TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan					
Prüflaboratorium: <i>Testing laboratory:</i> TÜV Rheinland Japan Ltd.					
Prüfergebnis: <i>Test results:</i> The test item passed the test specification(s).					
Geprüft von <i>Tested by:</i> 			Kontrolliert von <i>Reviewed by:</i> 		
2020-06-12, Tam Tran Thanh			2020-06-12, Atsuhiko Endo		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other Aspects:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
*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 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					
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. <i>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</i>					