



C E R T I F I C A T E

Certificate registration number: G3.2012.423.2.A4

Certificate holder: Zhejiang Reallin Electron Co., Ltd

Product designation: C3001-JB,
Hardware version V1.3, Firmware version G3.v1.4.1

Certification date: December 19th, 2020

This certificate indicates the above mentioned product successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017). The optional feature coherent mode of the G3-PLC protocol is also covered by this certification.

The certificate applies to certification profile CENELEC A 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 Laboratoire des Applications Numériques (LAN) in Tauxigny, France in December 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 | Laboratoire des Applications Numériques (LAN) | LAN20AF066 |

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The device is equipped with the G3-PLC certified platform C3001-JB with certificate no. G3.2012.421.1.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 December 19th, 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, December 19th 2020

For the G3-PLC Alliance.


Marc Delandre
Chairman



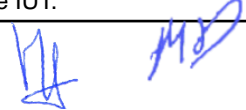
Madeleine Francillard
Chair Certification Program

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 | 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. |
| FEATURE_EAP_SERVER | TRUE | 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 data concentrator communicating on 3 phases. Testing was performed on phase 1.

Operating voltage applied for certification testing was 3 x 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 4: Additional details of the platform on which the product is based

| | | |
|---|--------------------|-----------------------------|
| Platform model name on which product is based: | C3001-JB | |
| Platform G3-PLC certificate number: | G3.2012.421.1.A4 | |
| Exact part number of all the chips running G3-PLC stack in the certified platform: | Chip #1: PL360B | Chip #2: ATSAMS70Q20B-CN |
| What each part number runs: lower MAC (incl. CSMA/CA) or PHY or other parts of the stack: | PHY+Lower MAC | MAC & 6LowPAN |
| Hardware version of this chip: | B | B |
| Software version running on this chip: | 36.01.04 (CEN-A) | G3_v.1.4.1 |
| Internal CPU frequency: | 216 MHz | 96 MHz |

[Handwritten signatures]