

## Annex to the certificate

Version 1.0

Certificate No. 1435.IM.090931/26, V1.0

for the display device

## IconTrust® HMI SHMI12t (including Configuration Tool Chain)

| Display Device         | Device Index | DEUTA order code |
|------------------------|--------------|------------------|
| IconTrust® HMI SHMI12t | A            | 08575001         |

### Hardware Components

| Module                                                                                                  | HW Document       | Name                           | Index |
|---------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|-------|
| <b>Safety-Related Hardware Components</b>                                                               |                   |                                |       |
| SHMI12U2601 (ITS-SD)<br>(Safe Comparator Board for display resolutions of 640x480, 800x480 or 1024x768) | Circuit Diagram   | SHMI12H27                      | -     |
|                                                                                                         | Component diagram | SHMI12U26                      | -     |
|                                                                                                         | Bill of materials | SHMI12U2601BOM                 | -     |
|                                                                                                         | Layout            | SHMI12U26                      | -     |
| MFTS204U1401<br>(Light Sensor Board (FSE))                                                              | Circuit Diagram   | MFTS204H15                     | B     |
|                                                                                                         | Component diagram | MFTS204U14                     | B     |
|                                                                                                         | Bill of materials | MFTS204U1401BOM                | B     |
|                                                                                                         | Layout            | MFTS204U14                     | B     |
| MFT111U77 Touch Control board 10,4"<br>TNxP00077-A3 (TouchNETIX)                                        | Circuit Diagram   | 2952T Control PCB              | A3    |
|                                                                                                         | Bill of materials | TNxP00029-A-BOM                | A3    |
|                                                                                                         | Assembly Drawing  | MxT2952A00095                  | A3    |
| <b>Not Safety-Related Hardware Components</b>                                                           |                   |                                |       |
| TNxP00178 Lado Black (TouchNETIX)<br>(Touch Sensor for 12" displays)                                    |                   |                                | -     |
| SHMI12U1001<br>Base board with Apollo Lake QA5 Module                                                   |                   | SHMI12U1001                    | -/-   |
| So807<br>TCG121XGLBPBNN-AN40-TA<br>TFT-Display 12.1" 1024x768 XGA                                       | Data Sheet        | Kyocera<br>TCG121XGLBPBNN-AN40 | -/-   |

## Software Components

| Component                                     | SW version                                  | Identification                          |
|-----------------------------------------------|---------------------------------------------|-----------------------------------------|
| <b>Safety-Related Software Components</b>     |                                             |                                         |
| Application Microcontroller A                 | SW22-677/C                                  | GIT-hash: 9e871520                      |
| Application Microcontroller B                 | SW22-678/C                                  | GIT-hash: 9e871520                      |
| FPGA 1 (incl. scrambling)                     | SW29-193/A                                  | GIT-hash: 43296736                      |
| FPGA 2                                        | SW29-161/G                                  | GIT-hash: ffe635c0                      |
| IconTrustSelect Device Settings Parameter Set | SW22-581/C                                  | Git Hash: 9535fe45<br>CRC16: 0x09C3     |
| Touch Configuration 12.1"                     | SW29-179/A                                  | Git Hash: 0xE56188                      |
| Default IconTrust Configuration               | SW22-701/A                                  | Git Hash: 65614ef5<br>CRC32: 0x1034B77B |
| <b>Not Safety-Related Software Components</b> |                                             |                                         |
| S-HMI-App                                     | SW112-001/A4 1.x.x<br>(starting from 1.1.1) | Git Hash for 1.1.1: b4af374f            |
| RPC service                                   | SW112-001/A4 1.x.x<br>(starting from 1.1.1) | Git Hash for 1.1.1: b4af374f            |
| Commissioning Screen                          | SW112-001/A4 1.x.x<br>(starting from 1.1.1) | Git Hash for 1.1.1: b4af374f            |

## Tools of the Configuration Tool Chain

| Component                       | SW version                                    | Identification               | Tool Class |
|---------------------------------|-----------------------------------------------|------------------------------|------------|
| <b>Safety-Related Tools</b>     |                                               |                              |            |
| calconfigcrc                    | 1.x.x / SW109-101/D<br>(starting from 1.5.3)  | Git Hash for 1.5.3: 7c486868 | T3         |
| hex2yaml                        | 1.x.x / SW109-101/D<br>(starting from 1.5.3)  | Git Hash for 1.5.3: 7c486868 | T2         |
| report2yaml                     | 1.x.x / SW109-101/D<br>(starting from 1.5.3)  | Git Hash for 1.5.3: 7c486868 | T2         |
| yaml2hex                        | 1.x.x / SW109-101/D<br>(starting from 1.5.3)  | Git Hash for 1.5.3: 7c486868 | T3         |
| yaml2report                     | 1.x.x / SW109-101/D<br>(starting from 1.5.3)  | Git Hash for 1.5.3: 7c486868 | T2         |
| yamlnormalize                   | 1.x.x / SW109-101/D<br>(starting from 1.5.3)  | Git Hash for 1.5.3: 7c486868 | T3         |
| config2lven                     | 1.x.x / SW112-001/A4<br>(starting from 1.1.1) | Git Hash for 1.1.1: b4af374f | T3         |
| png-renderer                    | 1.x.x / SW112-001/A4<br>(starting from 1.1.1) | Git Hash for 1.1.1: b4af374f | T3         |
| processConfig                   | 1.x.x / SW39-406/A3<br>(starting from 1.0.1)  | Git Hash for 1.0.1: bb9de53d | T3         |
| gatekeeper                      | 1.x.x / SW116-001/B<br>(starting from 1.0.1)  | Git Hash for 1.0.1: 1e25af13 | T3         |
| check_SRAC                      | 1.x.x / SW116-002/B<br>(starting from 1.1.1)  | Git Hash for 1.1.1: 8b80434e | T2         |
| censuraQt                       | 4.x.x / SW116-003/B<br>(starting from 4.0.0)  | Git Hash for 4.0.0: c0ced120 | T3         |
| launch_s-hmi-app.sh             | 1.x.x / SW116-001/B<br>(starting from 1.0.1)  | Git Hash for 1.0.1: 1e25af13 | T3         |
| flashIconTrustSelect            | 1.x.x / SW39-406/A3<br>(starting from 1.0.1)  | Git Hash for 1.0.1: bb9de53d | T3         |
| clearConfiguration              | 1.x.x / SW39-406/A3<br>(starting from 1.0.1)  | Git Hash for 1.0.1: bb9de53d | T3         |
| ITS_Diag                        | 2.x.x / SW109-001/H<br>(starting from 2.4.2)  | Git Hash for 2.4.2: 3526ea1e | T3         |
| activateConfiguration.sh        | 1.x.x / SW116-001/B<br>(starting from 1.0.1)  | Git Hash for 1.0.1: 1e25af13 | T3         |
| <b>Not Safety-Related Tools</b> |                                               |                              |            |
| Web-Editor                      | 1.x.x / SW112-002/A4<br>(starting from 1.1.1) | Git Hash for 1.1.1: b4af374f |            |

The following compliance is confirmed for the configuration tool chain:

The integrity of the ITS configuration is ensured by the tool chain. An integrator must verify the suitability of the ITS configuration after it has been transferred to the higher-level system.

All notes for application defined in report no. 8123661443-5500 (in its respective valid version) must be considered, in particular the following:

- The validation of the communication profiles shall be performed by an accredited laboratory according to the PROFIsafe conformance test.
- Additional conditions of use related to the PROFIsafe-Profile are defined in the Profile (IEC 61784-3-3:2021). These conditions shall be considered.

|                   | Release evaluator | Release certifier |
|-------------------|-------------------|-------------------|
| Date<br>Signature |                   |                   |