



**15.0" PCAP Solution  
12016625**

Revision: 002

Date: 14.02.2018

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## 1 Scope

DATA MODUL's PCAP solution 12016625 consists of a 15.0" capacitive touch screen . Please note that this is only a sub-assembly of the final product. The specification of the final end product might differ from this specification.

## 2 Touch Sensor and Cover Glass

### 2.1 Technical Parameters

Screen size	15.0 inch /38.1 cm
Format	4:3
Composite	Film / Film
Outline dimensions	324.4 x 250.3 x 0.63 mm (WxHxT)
Active area	307.4 x 231.3 mm (WxH)
Bending radius of tail	R = 5 mm recommended
Transmissivity	85% (min.)
Haze	3% (max.)
Operating temperature and humidity	-20°C-+70°C ,20 % RH- 25 % RH
Storage temperature and humidity	-40°C-+80°C, 10 % RH- 90 % RH
Tail connector	Hirose FH28H-80S-0.5SH, Hirose FH28H-50S-0.5SH

\* Note 1: When the ambient temperature is above 65°C, the humidity has to be below 50%RH

### 2.2 Reliability Tests

Low Temperature Storage Test	-30°C for 72h
High Temperature Storage Test	70°C for 72h
High Temperature / High Humidity Test	60°C, 85% RH for 250h
Cycle test	-20°C / 60°C, 2 h / cycle, 36 cycles

### 3 Recommended Touch Controller

The recommendation for this PCAP solution is a controller based on Microchip mXT2952T2 . Please ask your local DATA MODUL sales representative for further details.

## 4 Optical Inspection Criteria and Handling Recommendations

### 4.1 Optical Inspection Criteria

For details on the optical inspection criteria, please refer to DATA MODULs Outgoing Spec or ask your local DATA MODUL sales representative.

### 4.2 Handling Recommendations

Precautions for operation

- Do not put a heavy, hard or sharp object on the product
- Do not bend the product in order to assure the reliability
- Do not put one product on the other. Otherwise, it may cause the product to be scratched
- Don't use any organic solvent acid or alkali solution.

Precautions for mounting

- The panel should be mounted using a configuration that either holds the panel by all four corners or by all four sides
- The bezel edge must be positioned outside the active area. The bezel may cause false activation if the edge overlaps the active area
- Any mounting configuration should ensure that there is no twisting force applied to the panel
- 1mm distance between TFT screen and touch panel is recommended

Precautions for tail

- The flex tail in general can be bent with a min. radius of about 1mm
- In order to avoid damaging and malfunction of the sensor, please don't bend the FPC area next to the panel
- Excess or repeated bending of the FPC connector should also be avoided



## 6 Revision History

Revision	Date	Author	Changes
001	21.11.2017	Graf	initial version
002	14.02.2018	Lübke	structure: drawing, appendix and new layout

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