



**23.8" PCAP Solution  
12032602**

Date: 09/09/2019

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## 1 Scope

DATA MODUL's PCAP solution 12032602 consists of a 23.8" 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	23.8 inch /60.5 cm
Format	Wide
Composite	Film / Film
Outline dimensions	545.9 x 316.9 x 0.47 mm (WxHxT)
Active area	534.2 x 302.9 mm (WxH)
Carrier glass	n.a. mm
Bending radius of tail	R = 2 mm recommended
Transmissivity	85% (min.)
Haze	3% (max.)
Operating temperature and humidity	-20 to +70°C, 20 to 80% RH
Storage temperature and humidity	-20 to +70°C, 10 to 90 % RH
Tail connector	ATOM FPC05050-43203, ATOM FPC05050-43203, HIROSE TF31-60S-0.5H(800)

## 2.2 Reliability Tests

Low Temperature Storage Test	-20°C for 96h
High Temperature Storage Test	70°C for 96h
High Temperature / High Humidity Test	40°C, 90% RH for 96h
Cycle test	-20 to +70°C, 1hr: 5cycles

## 3 Recommended Touch Controller

The recommendation for this PCAP solution is a controller based on ILITEK ILI2315PC . 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

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## 5 Appendix A: Technical Drawing

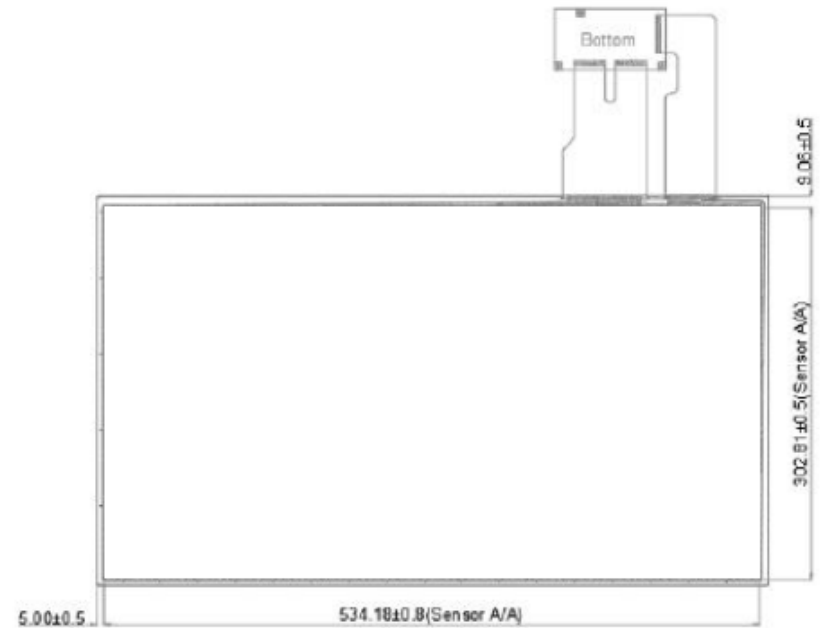
Front View



Side View



Back View



## 6 Revision History

Date	Author	Changes
12/19/2018	ToGo	initial version
06/19/2019	ToGo	Changed the Operating Temperature Condition
09/09/2019	ToGo	Corrected name of the touch controller – page 4

DATA MODUL Aktiengesellschaft  
Landsberger Str. 322  
80687 Munich, Germany  
Tel. +49-89-5 60 17-0  
Fax +49-89-5 60 17-119  
[www.data-modul.com](http://www.data-modul.com)

Logistics, Production & Services:  
DATA MODUL Weikersheim GmbH  
Lindenstrasse 8  
DE-97990 Weikersheim - Germany  
Phone: +49-7934-101-0  
Fax: +49-7934-101-101

DATA MODUL's worldwide offices  
can be found on our website:  
[www.data-modul.com/eu/contact-worldwide.html](http://www.data-modul.com/eu/contact-worldwide.html)

