

Human Machine Interface

PROTOUCH-81 Series (Build-in)

Projected capacitive touch panel computer with Intel® Atom™ E3900 processor

optional
LTE / GPS / Wi-Fi / BT



— IP65 front
— Projected capacitive touch

24 VDC RS232 2x LAN 4x USB

TFT/HB101PU81

A robust industrial touch panel PC with a 10.1 inch display with projected capacitive touch and chemical resistant front. This version comes with Intel® Atom™ E3900 (formerly Apollo Lake) CPU directly attached to the display housing. The fan less devices are well suited for heavy industrial use. Designed with IP65 protection at the front.

- **Build-in version**
- **24/7 continuous operation**
- **Maintenance free**
- **Safety glass, scratch resistant**
- **16:9 display with LED backlight**



Product Highlights

Low Power
Fan less design
Hardware watchdog
Temperature supervision
Real Time Clock
Persistent Flash BIOS
ESD- protection on all interfaces
Reverse polarity protection
Long term availability

Product Feature

Intel® Atom™ E3900 Series
Intel® Celeron® or Pentium® on request
up to 2.0GHz, up to 4 Cores
10.1 inch display 16:9 ratio
RAM soldered on board up to 8GB
Socket for CFast Card
Ethernet, USB3, RS232, Mini PCIe
optional RS422/485 and isolated CAN
Brightness control (Software)

Markets / Applications

Industrial Automation
Maritime
Railway industry
Transportation and vehicle construction
PLC replacement
Cleantech

Processor / Performance	
Intel® Atom™ x5-E3930 1.80GHz (Burst) 1.3GHz Clock - Dual Core	optional
Intel® Atom™ x5-E3940 1.80GHz (Burst) 1.6GHz Clock - Quad Core	•
Intel® Atom™ x7-E3950 2.00GHz (Burst) 1.6GHz Clock - Quad Core	optional
Memory	
L2 cache	2MB
RAM DDR3L 1866MT/s soldered on board	4GB
8GB / 2GB DDR3 RAM ¹	optional
TFT Display	
Screen size [inch]	10.1w
Resolution [pixel]	1280 x 800
Brightness [cd/m ²]	850
Contrast ratio 800:1 Color performance 16.7M	•
Viewing angle	H-170° V-170°
Touch Screen	
Projected capacitive technology with resistant front glass	•
Features	
Real time clock PC compatible	•
Hardware Watchdog & Temperature supervisor	•
Intelligent power management (Ignition controller)	•
TPM2.0 (SLB9665)	optional
Communication Interfaces	
Socket for CFast	1
Socket for SD Card	1
USB version 3.0 (Type A)	1
USB version 2.0 (Type A)	3
Ethernet 10/100/1000 Mbit (I210-IT)	2
RS232 ESD protected (DSUB9)	2
RS232 ESD protected ²	2
RS422/485 ESD protected (DSUB9)	optional
CAN (PEAK, SJA1000 compatible) ESD protected, isolated (DSUB9)	optional
Mini PCIe socket ²	1
I2C bus ² HD Audio / Speaker ²	•
Technical Data	
Dimensions W x H x D [mm]	274 x 193 x 52
Net weight [gram]	~2100
Front cutout dimensions [mm]	259 x 178
Wall thickness [mm]	1 to 5
Input Voltage 10...30VDC non-isolated	•
Power consumption typ. in Watt @ 24V (without Add-ons)	tbd
Environmental Conditions	
Operating temperature -30°C to +65°C ³	•
Operating temperature (cold start up) -20°C to +65°C ³	•
Storage temperature -30°C to +80°C	•
Humidity 20 to 90% non condensing (less than 133.8g/m ³ above +60°C)	•
Protection standard IP65 front IP20 rear	•
Shock: designed to meet EN60068-2-27	•
Vibration: designed to meet EN60068-2-6	•
EMI Conformity EN-55032/55024/61000-6-2/61000-6-4	•
Safety according to IEC 60950-1	•
UL certification ¹	optional
MTBF ~ 200 000h (22.8 years) ² excluding display, excluding battery	•
Optional enhancement cards	
Wireless Module (LTE / GPS / WiFi / BT) ¹	optional

¹ Please contact factory for minimum order quantities² on internal header³ Depending on installation situation and use case. Please see user documentation for further information.

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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