

Human Machine Interface

PROTOUCH-81 C-Series (Build-in)

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



TFT/HB101PU81-C

A robust industrial touch panel PC with a 10.1 inch display with projected capacitive touch and 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**
- **Dual Display support**
- **High bright 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
Up to 8GB DDR3 RAM
Socket for M.2 and mPCIe Card
Ethernet, USB3, Mini DP++
fTPM

Markets / Applications

Industrial Automation
PLC replacement
Cleantech

Processor / Performance			
Intel® Atom™ x5-E3930 1.80GHz (Burst) 1.3GHz Clock - Dual Core	•		
Intel® Atom™ x5-E3940 1.80GHz (Burst) 1.6GHz Clock - Quad Core		•	
Intel® Atom™ x7-E3950 2.00GHz (Burst) 1.6GHz Clock - Quad Core			•
Intel® Celeron® N3350 2.4GHz (Burst) 1.1GHz Clock - Dual Core			optional
Intel® Pentium® N4200 2.5GHz (Burst) 1.1GHz Clock - Quad Core			optional
Memory			
L2 cache	2MB	2MB	2MB
One 204-pin SODIMM RAM socket	2GB (DDR3L 1600)	4GB (DDR3L 1866)	8GB (DDR3L 1866)
M.2 Type B (3042/2242) memory card (Cactus Technologies KD64GF-240SM6)	64GB (MLC)	64GB (MLC)	64GB (MLC)
TFT Display			
Screen size [inch]	10.1w	10.1w	10.1w
Resolution [pixel]	1280 x 800	1280 x 800	1280 x 800
Brightness, dimmable by software [cd/m ²]	850	850	850
Contrast ratio 800:1 Color performance 16.7M	•	•	•
Viewing angle	H-170° V-170°	H-170° V-170°	H-170° V-170°
Touch Screen			
Projected capacitive multi touch technology with resistant front glass	•	•	•
Features			
Real time clock PC compatible (CR2032 Coin Cell)	•	•	•
Hardware Watchdog & Temperature supervisor	•	•	•
Communication Interfaces			
Mini DP++ (up to 4096x2160 @ 60Hz)	1	1	1
USB version 3.0 (Type A)	2	2	2
USB version 2.0 (Type A) ²	1	1	1
Ethernet 10/100/1000 Mbit (I210-IT or I211AT)	1	1	1
RS232 ESD protected (DSUB9)	optional	optional	optional
Mini PCIe socket ²	1	1	1
Audio (ALC262-VC2-GR) ²	Line-out / Mic-in ²	Line-out / Mic-in ²	Line-out / Mic-in ²
Technical Data			
Dimensions W x H x D [mm]	274 x 193 x 55	274 x 193 x 55	274 x 193 x 55
Net weight [gram]	~2100	~2100	~2100
Front cutout dimensions [mm]	259 x 178	259 x 178	259 x 178
Wall thickness [mm]	1 to 5	1 to 5	1 to 5
Input Voltage 9...36VDC non-isolated	•	•	•
Power consumption typ. in Watt @ 24V (without Add-ons), 30% Brightness	9	12	14.5
Environmental Conditions			
Operating temperature 0°C to +45°C ³	•	•	•
Extended operating temperature -30°C to +55°C ^{1,3}	optional	optional	optional
Storage temperature -30°C to +80°C	•	•	•
Humidity 20 to 90% non condensing (less than 70g/m ³ above +70°C)	•	•	•
Protection standard IP65 front IP20 rear	•	•	•
Shock: designed to meet EN60068-2-27	•	•	•
Vibration: designed to meet EN60068-2-6	•	•	•
EMI /EMC according to EN55032 / EN55035	•	•	•
Safety according to EN62368-1:2016 ¹	optional	optional	optional
UL certification ¹	optional	optional	optional
MTBF ~ 150 000h (17 Years) excluding display, excluding battery	•	•	•
Optional enhancement cards			
Wireless Module (LTE / GPS / WiFi / BT) ¹	optional	optional	optional

¹ Please contact factory for minimum order quantities² on internal header³ Depending on installation situation and interface connection. Please see user documentation.

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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