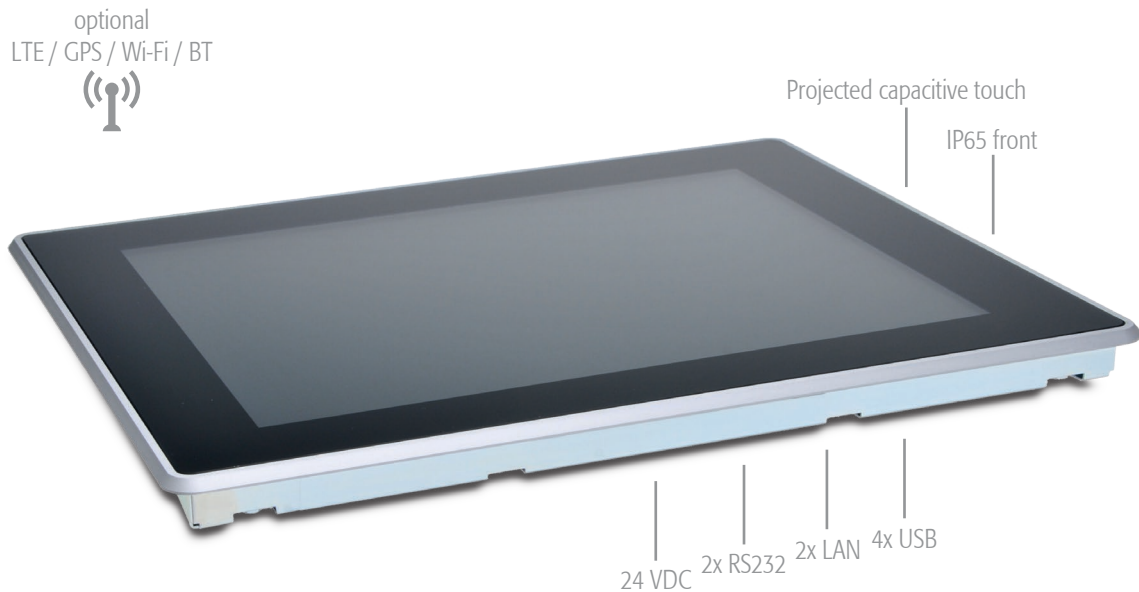


PROTOUCH-8 Series (Build-in)

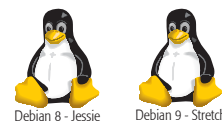
Projected capacitive touch panel computer with Intel® Atom™ E3800 processor



TFT/HBxxxPU8

A robust industrial touch panel PC with a 10.4, 12.1 or 15 inch display with projected capacitive touch and chemical resistant front. This version comes with Intel® Atom™ E3800 (formerly Bay Trail) 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.

- **Multi-core 64-bit Intel® Atom™ processor**
- **24/7 continuous operation**
- **No moving parts, maintenance free**
- **Long term availability with fixed BOM**
- **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™ E3800 Series
10.4, 12.1 and 15 inch display
Wear free projected capacitive touch technology
Soldered RAM
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™ E3845 1.91GHz 64-bit - Quad Core	•	•	•
Memory			
L2 cache	2MB	2MB	2MB
DDR3 RAM	4GB	4GB	4GB
8GB DDR3 RAM ¹	optional	optional	optional
TFT Display			
Screen size [inch]	10.4	12.1	15
Resolution [pixel]	1024 x 768 (XGA)	1024 x 768 (XGA)	1024 x 768 (XGA)
Brightness [cd/m ²]	450	500	450
Contrast ratio 500:1	•	•	•
Viewing angle	H-178° V-178°	H-160° V-160°	H-160° V-150°
Color performance 16.2M	•	•	•
Touch Screen			
Projected capacitive technology	•	•	•
Scratch and break resistant front glass	•	•	•
Features			
Real time clock PC compatible	•	•	•
Hardware Watchdog & Temperature supervisor	•	•	•
Intelligent power management (Ignition controller)	•	•	•
TPM2.0 (SLB9665)	optional	optional	optional
Interfaces			
Socket for CFast	1	1	1
Socket for microSD Card	1	1	1
USB version 3.0 (Type A)	1	1	1
USB version 2.0 (Type A)	3	3	3
Ethernet 10/100/1000 Mbit (I210-IT) (RJ45)	2	2	2
RS232 ESD protected (DSUB9)	1	1	1
RS232 ESD protected ²	1	1	1
RS422/485 ESD protected (DSUB9)	optional	optional	optional
CAN (PEAK, SJA1000 compatible) ESD protected, isolated (DSUB9)	1	1	1
Full size mPCIe socket ²	1	1	1
Mini SIM socket (to mPCIe socket)	•	•	•
I2C bus ² HD Audio / Buzzer ²	•	•	•
Technical Data			
Dimensions W x H x D [mm]	288 x 234 x 53.5	333 x 275 x 53.5	395 x 312 x 55.5
Net weight [gram]	2900	3700	4900
Front cutout dimensions [mm]	271 x 217 ^{-0/+2}	316 x 258 ^{-0/+2}	378 x 295 ^{-0/+2}
Wall thickness [mm]	1 to 5	1 to 5	1 to 5
Input Voltage 9...30VDC non-isolated	•	•	•
Power consumption typ. in Watt @ 24V (without Add-ons)	~15	~17	~18
Environmental Conditions			
Operating temperature -30°C to +70°C ³	•	•	•
Operating temperature (cold start up) -20°C to +70°C ³	•	•	•
Storage temperature -20°C to +75°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-55022/55024/61000-6-2/61000-6-4	•	•	•
Safety according to IEC 60950-1	•	•	•
MTBF ~200 000h (22.8 years) ^{excluding display, excluding battery}	•	•	•
Optional enhancement cards			
Wireless Module (LTE / GPS / WiFi / Bluetooth) 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.

Processor / Performance			
Intel® Atom™ E3845 1.91GHz 64-bit - Quad Core	•	•	•
Memory			
L2 cache	2MB	2MB	2MB
DDR3 RAM	4GB	4GB	4GB
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Contrast ratio 500:1	•	•	•
Viewing angle	H-178° V-178°	H-160° V-160°	H-160° V-150°
Color performance 16.2M	•	•	•
Touch Screen			
Projected capacitive technology	•	•	•
Scratch and break resistant front glass	•	•	•
Features			
Real time clock PC compatible	•	•	•
Hardware Watchdog & Temperature supervisor	•	•	•
Intelligent power management (Ignition controller)	•	•	•
TPM2.0 (SLB9665)	optional	optional	optional
Interfaces			
Socket for CFast	1	1	1
Socket for SD Card	1	1	1
USB version 3.0 (Type A)	1	1	1
USB version 2.0 (Type A)	3	3	3
Ethernet 10/100/1000 Mbit (I210-IT) (RJ45)	2	2	2
RS232 ESD protected (DSUB9)	2	2	2
RS232 ESD protected ²	2	2	2
Mini PCIe socket ²	1	1	1
I2C bus ² HD Audio / Buzzer ²	•	•	•
Technical Data			
Dimensions W x H x D [mm]	288 x 234 x 53.5	333 x 275 x 53.5	395 x 312 x 55.5
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Storage temperature -20°C to +75°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-55022/55024/61000-6-2/61000-6-4	•	•	•
Safety according to IEC 60950-1	•	•	•
MTBF ~200 000h (22.8 years) ^{excluding display, excluding battery}	•	•	•
Optional enhancement cards			
Wireless Module (LTE / GPS / WiFi / Bluetooth) ¹	optional	optional	optional

¹ Please contact factory for minimum order quantities

² on internal header

³ 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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