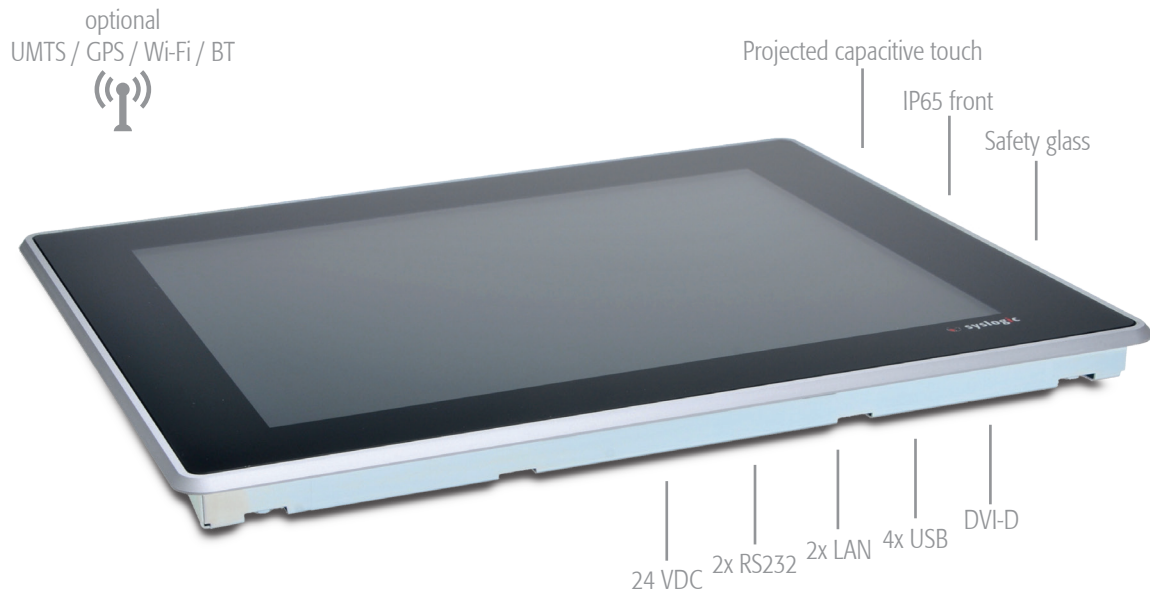


PROTOUCH-71 Series (Build-in)

Projected capacitive touch panel computer with Intel® Atom™ processor



TFT/HBxxxPU71

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™ 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**
- **Product lifecycle management**
- **LED Backlight**

 Windows Embedded Standard 7

 Windows Embedded Standard 2009



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™ E620T, E640T, E680T
10.4, 12.1 and 15 inch display
Wear free projected capacitive touch technology
Soldered RAM
Socket for CFast Card
Ethernet, USB, RS232, RS422/485, CAN
Brightness control (Software)

Markets / Applications

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

Processor / Performance			
Intel Atom E680T 1.6GHz	•	•	•
Memory			
56kB L1 Cache (32kB instruction / 24kB data)	•	•	•
512kB L2 Cache	•	•	•
2GB DDR2-400MT/s SDRAM ¹	•	•	•
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]	400	500	400
Brightness 500...1000 cd/m ² ¹	optional	optional	optional
LED Backlight	•	•	•
Contrast ratio 700:1	•	•	•
Viewing angle	H-178° V-178°	H-160° V-160°	H-160° V-140°
Color performance 16.2M	•	•	•
Touch Screen			
Projected capacitive technology	•	•	•
Scratch and break resistant front glass	•	•	•
Peripherals			
Socket for CFast Card	•	•	•
SATA Interface standard ⁽²⁾	•	•	•
HDA Interface ²	•	•	•
Real time clock PC compatible	•	•	•
Hardware watchdog 100ms / 1.6s	•	•	•
Intelligent power management and control system	•	•	•
Temperature supervisor	•	•	•
Goldcap instead of battery backup ¹	optional	optional	optional
Communication Interfaces			
USB version 2.0 (high or full speed)	4	4	4
Ethernet 10/100/1000 Mbit	2	2	2
RS232 ESD protected (DSUB9)	2	2	2
RS422/485 ESD protected ¹	optional	optional	optional
CAN Version 2.0b, SJA1000, ESD protected, isolated ¹	optional	optional	optional
Technical Data			
Dimensions W x H x D [mm]	288 x 234 x 59	333 x 275 x 59	395 x 312 x 59
Net weight [gram]	2900	3700	4900
Build-in version	•	•	•
Front cutout dimensions [mm]	271 x 217 ^{-0/+2}	316 x 258 ^{-0/+2}	378 x 295 ^{-0/+2}
Wall thickness [mm]	1 to 10	1 to 10	1 to 10
Input Voltage 10...30VDC non-isolated	•	•	•
Power consumption typ. in Watt @ 24V (without Add-ons)	14	20	22
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}	•	•	•
Optional enhancement cards			
Wireless Module (UMTS / GPS / WiFi / Bluetooth) ¹	optional	optional	optional

¹ Please contact factory for minimum order quantities² On internal header³ On component level. Please check manual 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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