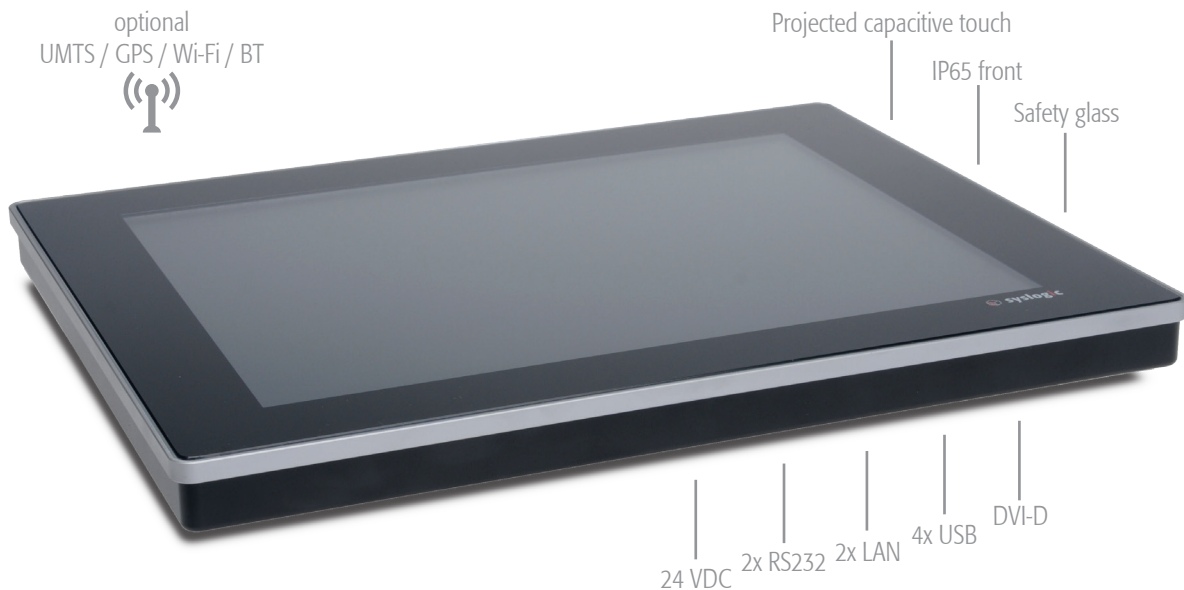


PROTOUCH-71 Series (VESA)

Projected capacitive touch panel computer with Intel® Atom™ processor

preliminary



TFT/HVxxxPU71

A robust industrial touch panel PC with a 15.6 or 18.5 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.

- VESA 100 mount
- 24/7 continuous operation
- Maintenance free
- Safety glass, scratch resistant
- Product lifecycle management
- 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™ E620T, E640T, E680T
15.6 and 18.5 inch display 16:9 ratio
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	•	•
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Memory

56kB L1 Cache (32kB instruction / 24kB data)	•	•
512kB L2 Cache	•	•
2GB DDR2-400MT/s SDRAM	•	•

TFT Display

Screen size [inch]	15.6w	18.5w
Resolution [pixel]	1366 x 768 (WXGA)	1366 x 768 (WXGA)
Brightness [cd/m ²]	400	300
Brightness 500...1000 cd/m ² ¹	optional	optional
Contrast ratio 500:1	•	•
Viewing angle	H-160° V-160°	H-160° V-160°
Color performance 16.7M	•	•

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

Communication Interfaces

USB version 2.0 (high or full speed)	4	4
Ethernet 10/100/1000 Mbit	2	2
RS232 ESD protected (DSUB9)	2	2
RS422/485 ESD protected ¹	optional	optional
CAN Version 2.0b, SJA1000, ESD protected, isolated ¹	optional	optional

Technical Data

Dimensions W x H x D [mm]	tdb (420 x 275 x 60)	tdb (490 x 315 x 60)
Net weight [gram]	tdb (5100)	tdb (5500)
VESA mounting [mm]	100 x 100	100 x 100
Input Voltage 10...30VDC non-isolated	•	•
Power consumption typ. in Watt @ 24V (without Add-ons)	tdb	tdb

Environmental Conditions

Operating temperature -30°C to +60°C ³	•	•
Operating temperature (cold start up) -20°C to +60°C ³	•	•
Storage temperature -20°C to +70°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
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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.