# Protégé 10a

16:9 Professional in-wall XPe/WES7 touchscreen

The affordably elegant 10.1" 16:9 touchscreen is a high-performance smartscreen/controller running the flexible Win XPe or Win7e OS with either resistive or capacitive touch overlays. Protégé 10a offers a fast Intel Atom 1.6Ghz processor, flush-mounting, a brandable acrylic bezel, capacitive soft-touch configurable buttons, and VoIP-ready. Protégé is ideal for web or Win-based applications where dedicated in-wall location is essential. The robust solid state platforms offer unwavering stability on XPe or WES7 as a high-performance experience.

Make Protégé the backbone of your installations today!

## Protégé 10a Features:
- Intel 1.6Ghz low-heat, high-performance fanless processor.
- 10.1" **16:9 format** High Bright **TFT LED** with up to **1024x600 resolution**, 16.2M colors
- Touch Panel: 5-wire Resistive type or Capacitive or **Projected Capacitive Multi-Touch**
- Standard Configuration: 2GB DOM/512MB RAM for XPe, 4GB DOM/1GB RAM for WES7.
- MPEG2 hardware accelerator integrated
- Optional tilt-adjustable **web camera**
- Gigabit Ethernet Controller
- 2 speakers and 1 microphone and 4 quick access **hard buttons** on front bezel
- Ports: 1 x LAN, 1 x RS232, **1 x RS232/422/485,** 2 x USB2.0, 1 x PS/2,
- Power Supply: 9~24V full range DC input.
- Steel back box included
- Auto Power-On feature

## Acrylic Bezel:
- 4 soft-touch sensing buttons on GPIO bus
- LED Indicator: RED when off; GREEN when on; ORANGE when any button touched.
- Microphone / 2 amplified speakers
- Optional bezel web camera (as shown below)

Protégé 10a Ports and Connector types

1-Screw type power
2-DB9 RS232 Serial
2- USB Serial
1-VGA out
1-Ethernet
1-PS2

# Borg Displays

## System

| | |
|---|---|
| Processor | Intel Atom 1.6Ghz low heat, high performance processor |
| Graphics | Integrated high performance 945GSE 3D graphics controller |
| Memory | 2GB DOM (up to 16GB) (4GB WES) DDR2 667Mhz, 512MBB SO-DIMM (up to 2 GB) |
| USB | 2 x USB 2.0 |
| Audio | AC'97 Audio with 5.1 channels surrounding sound |
| LAN | Realtek RTL8110S-32 Gigabit Ethernet controller |
| IDE | 2x SATA 3GB/s, 1x Compact Flash Socket |
| PCI | mini-PCI slot x1 |
| GPIO | 8-bit programmable I/O interface |
| Com Port | 2 x COM ports; COM1/COM2 |
| Speaker | 2 channel amplified speakers |
| Microphone | Capacitive microphone |

## Display and Touch Screen

| | |
|---|---|
| Panel | 10.1 " TFT Long life LED backlit LCD with 16:9 aspect ratio |
| Active Area: | 222.72 (H) X125.28 (V)mm |
| Pixels (H x V): | 1024x 600x 3(RGB) |
| Support Color: | 262K colors ( RGB 6-bit ) |
| Brightness | 200 cd/M$^2$ |
| Contrast | 400:1 |
| Memory | Up to 244MB shared with system memory. |
| Touch Screen | Projected Capacitive multi-touch or Resistive 5-wire RoHS compliant |

## Storage

| | |
|---|---|
| Solid State Memory | Industrial extended temperature 2GB ROM – expandable to 16GB |
| Memory Card | Industrial extended temperature Compact Flash Type II – expandable to 4GB |

## External Input/output

| | |
|---|---|
| USB | 2 x USB 2.0 |
| COM | COM: DB-9 x 2 (3 pin headers; COM1/COM2) |
| LAN | 1 x RJ-45 1 GB Ethernet (with indicators) |
| Keyboard/Mouse | PS/2 |

## Miscellaneous

| | |
|---|---|
| Audio | 2 amplified speakers output |
| GPIO | 8-bit programmable I/O interface |
| Memory Card | 1 x Compact Flash card slot |
| Power | 1 x DC 9~24VDC |
| Reset | 1 x system reset button |

## Peripherals

| | |
|---|---|
| Touch sensitive buttons | 4 x customizable touch buttons, 1 x power switch button |
| Status LED indicator | 1 x LED indicator (3 colours) |
| Web Camera | Optional,, tilt-adjustable |

## Mechanical and Environmental

| | |
|---|---|
| Power Input | AC 100~240V adapter, external power supply unit |
| Operating Temperature | 0~60°C |
| Front Bezel material | Clear Acrylic, white finish (custom colours available for large quantities) |
| Back Box and PC chassis | Mild steel |
| Relative Humidity | 10%~90%, non-condensing |
| Weight | 3.5 Kg (including packaging) |
| Dimensions | Front bezel – 255H x 290W x 6D mm |
| | Wall Cavity dimension: 268W x 232H x 51D mm. |
| | Back box – 266.4W x 226H x 51.3D mm |



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