

# Protégé 21

Wide Format Professional in-wall touchscreen



The affordably elegant and large format 21.5" 16:9 touchscreen is a high-performance smartscreen controller running **XPe** or **Win7e** and resistive or multi-touch overlays. Protégé 21a offers a fast Intel Atom 1.6Ghz processor, flush-mounting or VESA mount, brandable acrylic bezel, capacitive soft-touch configurable buttons, and is VoIP-ready. Protégé is ideal for web or Win-based applications where dedicated in-wall location is essential. The solid state platform offers unwavering stability on as a high-performance display or controller.

## Protégé 21 Standard Features:

- Intel 1.6Ghz low-heat, high-performance processor.
- 21.5" **16:9 TFT LED** up to **1920x1080** res, 16.7M colors
- MPEG2 hardware accelerator integrated
- Gigabit Ethernet Controller
- 2 speakers, mic, cam and 4 **hard buttons** on bezel
- 1 LAN, 1 RS232, 1 RS232/422/485, 2 USB2.0, 1 PS/2,
- Power Supply: 9~24V full range DC input.
- Steel back box with VESA mount option included
- Auto Power-On feature

## Customizable Acrylic Bezel: (default is black)

- 4 soft-touch sensing buttons on GPIO bus
- LED: RED off; GREEN on; ORANGE button touch
- Microphone / 2 amplified speakers
- Adjustable bezel camera

## Options:

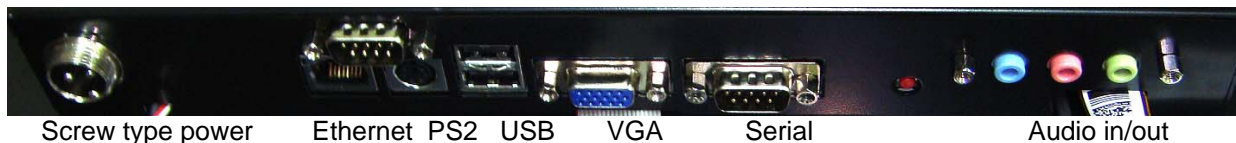
- 2-Video input card w/remote
- WiFi networking
- Custom bezel color/logo/button icons, etc
- SATA 64GB HDD

## Protégé 21w (WES)

- Windows embedded 7
- Capacitive touch
- 4GB DOM / 2GB RAM
- .Net 1.1, 2.0, 3.0, 3.5
- Internet Explorer 8.0
- Button Monitor 4.01
- Flash plugin 10.2
- Javascript plugin 1.3
- JVM SE
- Media Player 12
- User Management
- Screen Saver
- Windows Explorer
- QC Hardware test tool
- Remote Access

## Protégé 21w (WES)

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- Remote Access
- Multi-touch ready



Screw type power

Ethernet

PS2

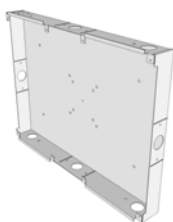
USB

VGA

Serial

Audio in/out

## Protégé 21 Ports and Connector types



## Mounting Options:

1. Flush inside steel backbox (included)
2. On VESA swing arm to pull out from backbox and swivel
3. On VESA arm mounted to wall surface w/o a backbox

(VESA arm not included)



## 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, 1GB SO-DIMM
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	21.5" TFT Long life LED backlit LCD with 16:9 aspect ratio
Active Area:	476x268mm (18.7x10.55") Pixels (H x V): 1920x 1080x 3(RGB)
Support Color:	16.7M colors ( RGB 6-bit+ Hi_FRC )
Brightness	250 cd/M <sup>2</sup>
Contrast	1000:1
Memory	Up to 244MB shared with system memory.
Touch Screen	5-wire Resistive (Pro21a) or Projective Capacitive (Pro21w)

## Storage

Solid State Memory	Industrial extended temperature 2GB ROM – expandable to 16GB
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## External Input/output

USB	2 x USB 2.0
COM	COM: DB-9 x 2
LAN	1 x RJ-45 1 GB Ethernet (with indicators)
Keyboard/Mouse	PS/2 x1

## 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	Resolution: 2M pixels, 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	___ Kg (including packaging)
Dimensions	Front Bezel: 525mm (W) x 385mm (H) Chassis: 510mm (W) x 351.8mm (H) x 51.6mm (D) Back Box: 499mm (W) x 370mm (H) x 57mm (D) Wall Cavity: 500mm (W) x 360mm (H) x 56.5mm (D) VESAs MIS-D 75/100 (75mm x 75mm & 100mm x 100mm)

VESA mounting Interface:

