

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:

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 21a (XPe)

- Windows XP embedded
- Resistive 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)

- Windows 7 embedded
- 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
- Multi-touch ready



Screw type power

Ethernet PS2

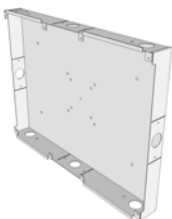
USB

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 ²
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:

