

# signotec Pad Alpha®

## LCD Full-Colour Signature Tablet A4-size

Description and data sheet



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**MADE  
IN  
GERMANY**  
Quality • Security • Ecology

## HIGHLIGHTS

- Affordable signature tablet with 15.6" colour TFT
- High-resolution colour display with 1366 x 768 pixels
- Adjustable LED Backlit
- Very flat surface with no depressions or edges
- Pen is available with plastic tip or inking cartridge to use ink on real-paper
- **Replaceable Tip Technology**
- **Simultaneous signature capturing by writing on paper**
- **Battery-free electromagnetic resonance technic pen**
- 1024 high pressure level pen with high position accuracy
- Extremely durable and robust
- Outstanding technical data for digitizing signatures
- High security thanks to protected data transfer and RSA-Encryption module
- Pads can be customised by adding customer logos
- HighSpeed WinUSB with 480 MB/sec or FullSpeed HID if WinUSB is not present
- Build-in internal USB to serial converter – virtual serial port for Terminal-Server Environments
- Optional Ethernet connection via TCP/IP to access the unit via LAN
- Control of two coloured LEDs at the front
- Signature input area can be defined and deleted
- Buttons can be defined, queried and cancelled on the display
- The application interface version is retrievable
- Display coordinates are retrievable
- The model number and firmware version of the pad can also be retrieved
- Output of 270 samples per second of X, Y, time and pressure coordinates
- Auto power-off when signal is on USB bus
- Signature display in real time
- **The Alpha 4 Tablet comes bundled with our software package "signoPAD-API" free of charge.**

## TECHNICAL DATA

### Dimensions

Thickness	26 mm
Width	240 mm
Height	400 mm

### Display

Type	15,6" full-colour TFT with adjustable LED backlit and "Privacy Viewing"
Number of colours	65,536
Resolution	1366 x 768 pixels
Scroll function	Not needed because an A4-document is displayed in original size
Pixel pitch	0.252 x 0.252 mm
Visible area	344 x 194 mm

### Sensor

Active signing area	344 x 211 mm
Precision	Up to 0,005 mm
Input method	ERT (Electromagnetic Resonance Technology)
Tip Technology	Replaceable Tip technology with inking pen cartridge
Pressure sensor unit	1024 pressure stages
Pen	Battery-Free
Writing sensation	On-screen handwriting, is only sensitive to ERT-Stylus, not influenced by hand touch, no erroneous input
Detectable Angle	+/- 50°

### Electronics / Digitisation

Output rate of coordinates	270 4D samples (comprising x, y, time and pressure coordinates) per second
Resolution	2400 lpi
USB port	WinUSB - high-speed mode (480 Mbps), downward compatible, HID full-speed mode if WinUSB not present.
Ethernet	Optional Ethernet for TCP/IP communication via LAN.
Serial port	Integrated via internal virtual serial COM port for Terminal Server Environment
USB standby support	Yes, when relevant signal is present the device is switched off
Data transfer	Secure data transfer between PC and pad and RSA-Encryption
Serial number	Unique and retrievable internal serial number
Status display	2 coloured and freely programmable LEDs
Software	API (SDK) included free of charge
Internal (in device) signature creation	Internal PDF signing with certificates and RSA encryption
Memory	128 MB RAM and 1 GB Flash-Memory

### Miscellaneous

Cable port	USB, optional Ethernet
Cable length	1.5 m
Weight	1.921 gram
Pen attachment	Via high flexible cord
Certifications and standards	CE, DIN EN 60950-1, DIN EN 61000-6-1, DIN EN 61000-6-3
RoHS	RoHS compliant
Tamper-proof closure	Housing can be optionally glued
Container	Cardboard packaging.
Bar code	A bar code with a serial number is located on the device and the cardboard box
WEEE-Reg.-Nr. (ear):	DE 41995888
Operating System	Windows XP, Win7, Win8, Server 2003, 2008, 32 and 64-Bit. Terminal Server.
USB-HUB	Internal and External USB Hub to connect peripherals

### Operating and storage conditions

Operating temperature	- 10° C to + 45° C
Storage temperature	- 25° C to + 70° C
Max. humidity for operation and storage	<= 90% non-condensing
Air pressure for operation and storage	> 700 hPa

**Reliability/Quality assurance**

Quality tests	Individual testing of devices with test log
High temperature test	240 hours at 80° C
Low temperature test	240 hours at - 40° C
Humidity test	240 hours at 60° C and 90% humidity
Thermal shock test	30 minutes at - 40° C and 30 minutes at + 80° C (10x in succession)

**Order numbers**

Alpha with HID/WinUSB and vCOM via USB (32)	ST-A4E-2-UFT100
Alpha with HID/WinUSB (31)	ST-A4E-2-U100
Alpha with HID/WinUSB and Ethernet (33)	ST-A4E-2-UE100
Alpha with HID/WinUSB and vCOM via USB and Ethernet (34)	ST-A4E-2-UFTE100

Order number description:

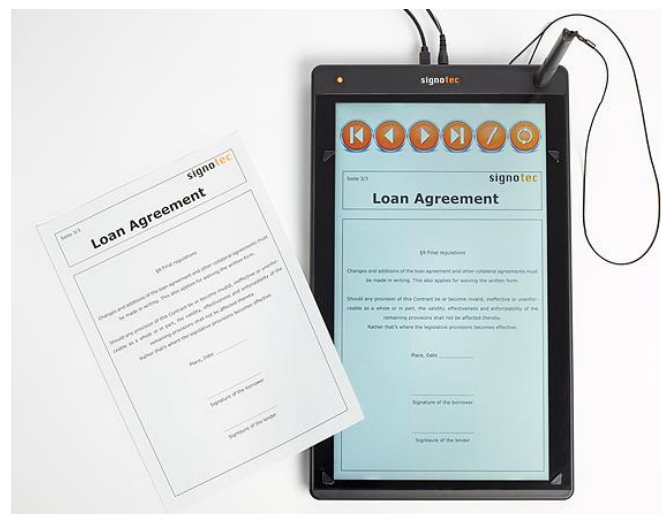
- ST     Manufacture (signotec)
- A4     Size and Model
- E     Encryption option
- 2(5)   USB cable length (1.5 or 5 meter)
- U     WinUSB or HID (HID if WinUSB not present)
- FT     Internal Virtual Com Port Converter (USB2Serial)
- E     Ethernet
- 100    Standard Colour regarding the overlay and housing (other numbers for customer specific versions)

Internal mode of operation (retrievable via API):

- 31: HID/WinUSB
- 32: seriell/FDTI
- 33: Ethernet

Internal model number:

- 31: PCB is not using FTDI and Ethernet, it is only the mode "31" supported.
- 32: PCB with FTDI, but not equipped with Ethernet, it is the mode "31" and "32" supported.
- 33: PCB is not equipped with FTDI, but with Ethernet, it will be the mode "31" and "33" supported
- 34: PCB is fully loaded, it will support all modes



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**We reserve the right to make changes at any time as the technology develops.**

**And we reserve the right for mistakes  
and potentially manufacture tolerances at any time.**