

signotec Pad Gamma

LCD Colour Signature Tablet ERT

Description and data sheet



MADE IN GERMANY

■ ■ ■ Quality • Security • Ecology

Version: 1.1

Date: 2014-12-09

HIGHLIGHTS

- **Self-sufficient slide show with up to 10 graphics**
- **Including free of charge software packages incl. SDK for several programming languages**
- **Unique RSA-signature creation device and RSA-encryption methods inside the pad**
- **„Content Signing“ allows to directly sign the content displayed on the LCD, to assure to sign the correct document**
- **Secure mode for real time display**
- **Several options for secure certificate and key management inside the pad**

- Robust signature tablet with 5" TFT
- High resolution colour display with 800 x 480 pixels
- Extremely flat design
- Sensor surface made of hardened special glass
- Extreme long service life and robust
- Battery-free pen with changeable pen tip
- Electromagnetic Resonance Technology, the sensor is only responding to the pen
- No malfunction when simultaneously touching the surface with hand
- Exchangeable USB cable with reliable cord grip
- Vertical and horizontal pen holder
- Outstanding technical data for digitising signatures
- Display of coloured graphics
- Display of coloured buttons
- Display of coloured text
- Display of various fonts and font sizes
- Graphic compression to reduce transmission time
- Self-sufficient slide show with up to 10 graphics
- Scroll function
- Multi-Interface-Support: HID-USB, WinUSB, virtual COM-port
- Optional internal USB to serial converter – virtual serial port for terminal server support
- Control of 2 LEDs in the front
- Defining and deleting of the input area for the signature
- Buttons can be defined, queried and cancelled on the display
- Retrieval of the model number and firmware version
- Auto-Power-Off with relevant signal on USB bus
- Signature display in real time
- Power supply via USB without power supply unit



TECHNICAL DATA

**Alterations for the technical progress, manufacturing tolerances and mistakes reserved at any time!
We reserve the right to alter the technical data without prior notice.**

Dimensions	
Thickness	10 mm
Width	145 mm
Height	167 mm
Display	
Type	5" full colour TFT with backlight
Number of colours	65.536
Resolution	800 x 480 pixel absolute \pm 188 x 188 ppi
Scroll function	Yes
Pixel spacing	0,135 x 0,135 mm
Visible area	108 x 64,8 mm
Sensor	
Active signing area	108 x 64,8 mm
Resolution	10206 x 7422 pixel \pm 2400 x 2910 ppi
Linearity	\pm 0,4 mm
Technology	ERT (Electronic Resonance Technology) only responding to the pen
Surface hardness	Extremely durable, hardened special glass
Pressure stages	1024 pressure stages
Pen	Active and battery-free pen with changeable pen tips
Life span of the pen tip	1,2 Mill. at 250 gram pressure and 2,5 cm length
Total life	30 Million signatures
Electronics/Digitisation	
Output rate of the coordinates	280 Hz 4D Samples (consisting of x, y, time, pressure)
Internal sampling rate	6.000 samples per second
USB port	HID-USB 2.0. Fullspeed (12 MBit/s) und WinUSB Highspeed (460 Mbit/s)
Serial port	Optional via internal virtual serial COM-port
USB Standby Support	Yes, when relevant signal is present the device will switch off
Driver	Not necessary for HID-USB. Only for virtual serial port and WinUSB
Software/SDK/Tools	SDK and tools free of charge incl. updates and new versions
Data transfer	AES 256 encrypted data transfer between PC and pad via 2048 RSA key exchange
Serial number	Unique and retrievable internal serial number
Firmware	Version is displayed during initialisation and is retrievable via SW
Status display	2 coloured and freely programmable LEDs
Power consumption	375 mA HID and 389 mA in the FTDI version
Plug'n'Play	Yes, for both connection types (HID and virtual serial)
Readout protection of the firmware	Yes, flash memory is protected against readout
Miscellaneous	
Cable port	Micro USB with cord grip
Cable length	2,8 meter
Weight	425 gram
Pen attachment	Highly flexible textile tether
Certifications and standards	TÜV, CE, DIN EN 60950-1, DIN EN 61000-6-1, DIN 61000-6-3
ROHS	ROHS compliant
Tamper-proof closure	Optionally the case can be glued
Barcode	A barcode with a serial number is located on the device and the cardboard box
WEEE-Reg.-Nr. (German register for used devices)	DE 41995888
Operating systems	Windows XP (SP3), Win – Win10, Server 2003 - 2012, 32 and 64-Bit. Terminal Server. Linux
Protection class	IP 52

Operating and storage conditions	
Operating temperature	- 10° C to + 45° C
Storage temperature	- 25° C to + 70° C
Max. humidity for operating and storage	<= 90 % non-condensing
Air pressure for operating and storage	> 700 hPa
Reliability/Quality assurance	
Quality test	Individual testing of devices with test log
High temperature test of the components	240 hours at 80° C
Low temperature test of the components	240 hours at - 40° C
Humidity test of the components	240 hours at 60° C and 90 % humidity
Thermal shock test of the components	30 minutes at - 40° C and directly 30 minutes at + 80° C (10x in succession)
Article numbers	
Gamma Colour Signature Pad with USB, 2,8 m cable	ST-GX5-3-U100
Colour Pad Omega with virtual COM-port via USB - 2,8 m (USB 2serial)	ST-GX5-3-FT100

Article number description:

ST	Manufacturer (signotec)
G	Gamma series
X	Placeholder
5	Sensor size 5"
3	USB cable length 2,8 Meter
U	HID-USB
FT	Internal virtual COM-port converter (USB2Serial)
100	Standard colours regarding logo print and case

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