

signotec Gamma

Highlights & Data Sheet





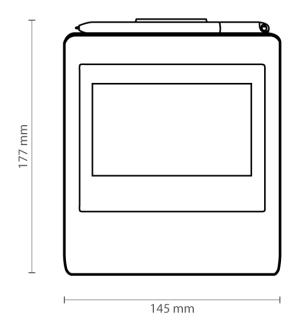


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HIGHLIGHTS

- 5" (12,6 cm) full-colour display.
- Extremely robust, hardened sensor glass (8H) with ER-technology.
- Signature capturing with 500 Hz 4D samples and 1.024 pressure stages (x, y, z, t).
- Unique RSA-signature creation and RSA-encryption methods inside the pad.
- Self-sufficient slideshow with up to 10 images.
- Battery-free pen with changeable pen tip.
- "Content Signing" allows to sign the LCDcontent with the captured signature.
- Secure Mode to display the signature on the screen in real-time.
- Delivery comes with completely assembled USB cable, pen and cord.
- Including free of charge software packages.









TECHNICAL DATA

General Data	
Dimensions	145 x 177 x 12 mm (W x D x H)
Casing colours	Upper shell: RAL 7021, black-grey Lower shell: RAL 9010, pure white
Cable port	Micro-USB (with strain relief) to USB-B.
Cable length	Approx. 2,7 meters
Power consumption	450mA; Standby 18 mA (HID/WinUSB) and 16mA (FTDI)
Power supply	USB
Status-LED	2 coloured and freely programmable LEDs
Stand	Compatible Multigrip™ plate available.
Weight	Approx. 280 grams (incl. cable)
Warranty	2 years, optional extension up to 5 years.
Country of origin	Germany

Display	
Туре	Full-Colour-TFT
Size	5" (12,6 cm)
Colour space	16,7 million
Backlight	LED-Backlight, brightness 300 cd/m ²
Configuration of backlight	The backlight can be configured with an API or configuration file.
Resolution	800 x 480 pixels ≙ 188 x 188 ppi
Pixel size	0,135 x 0,135 mm
Visible area	108 x 64,8 mm
Line of sight	6 o'clock
Scroll-function	Maximum size of the displayed image: 800×1.440 pixels.

Sensor		
Туре	ERT (Electronic Resonance Technology)	
Active signing area	108 x 64,8 mm	
Resolution	10.204 x 7.420 pixels ≙ 2.400 x 2.910 ppi	
Linearity	± 0,4 mm	
Method of input	Special sensor for pen input (no influence by hand touch)	
Surface	Extremely durable, hardened special (anti-glare) glass.	
Surface hardness	8H	
Life expectancy	Approx. 30 million signatures	
Pressure stages	2.048 pressure stages from FW 1.37	
Output rate of coordinates	500 Hz 4D-samples (consisting of x, y coordinates, time and pressure)	
Internal sampling rate	6.000 samples per second	
Stability of output rate	Constant through integrated quartz	
Pen	Active and battery-free pen with changeable pen tips.	
Minimal pressure force	0.098 N (10 gf)	
Maximal pressure force	7.845 N (800 gf)	
Life expectancy of the pen	Approx. 1,2 million signatures at 250 grams pressure and 2,5 cm length.	
Pen tilt angle	+/- 45°	



Possible height of the pen 5 - 15 mm

Pen attachment Highly flexible textile-cord and horizontal pen holder.

Connection types

USB USB-HID and WinUSB

Optional with internal USB-Serial-Converter (VCOM-Port) using FTDI or Serial

chargeable VCOM-Port-Driver.

USB-Standby-Support Yes, if the corresponding signal is given, the device switches off.

Yes, with an optionally available USB-to-Ethernet adapter. Ethernet

Driver and Software

Driver No special driver is required for a USB connection.

Plug and Play Yes, available for all connection types.

SDK (API) Several SDKs including updates and support available.

Tools Tools free of charge including updates and support.

Software Further chargeable software available.

System environment

Operating System Windows 7 and newer, Windows Server 2012 and newer, 32- and 64-Bit, Linux

Terminal Server and Citrix Compatible with Windows Remote Desktop and Citrix ICA

Citrix Virtual Channel Optionally available

Security mechanisms

Data transfer AES-256 encrypted data transfer between host and pad via RSA key exchange.

Encryption RSA-Encryption unit inside the pad.

Firmware Flash memory is protected against data theft.

Secure Mode Real-time display of the signature without usable biometrics.

Signature unit RSA signature creation unit in the pad.

Key storage Creation and storage of certificates in the pad.

Key size 4096 Bit

Certificate Signing Request (CSR) CSR can be generated in the pad and extracted.

The CSR can be signed by a root authority. Trusted certificates Additional information: eIDAS Pad Signature Seal

Supported Hash-algorithms SHA-1, SHA-256 and SHA-512

Transmission and Signing of a SHA-256 Hash via WinUSB: Signature-Performance

2048 Bit: 800 ms; 3072 Bit: 2.400 ms; 4096 Bit: 5.500 ms

signotec "Content-Signing"

Protection against forceful break in The casing can be glued optionally.

Miscellaneous

Transport protection No

Individualization Change of casing colour and logo print (on request).

Slideshow A standby slideshow with up to 10 images is freely configurable.

CE, FCC, DIN EN 60950-1, DIN EN 61000-6-1, EN 61000-6-3, EN 55022, EN Certifications and standards

55024

RoHS RoHS-compliant according to EU-regulations.

WEEE-Reg.-No. (German register for

used devices)

DE 41995888

DE 3470684644700 Packaging law Reg.-No.:

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Serial number	Unique and retrievable, internal serial number.
Device label	There is a label on the packaging and the device with information regarding the article number, hardware revision and serial number, including a barcode.

Operating- and storage conditions		
Operating temperature	-10°C to +45°C	
Storage temperature	-25°C to +70°C	
Air humidity for operation and storage	<= 90%, non-condensing	
Air pressure for operation and storage	> 700 hPa	
Degree of protection	IP 52	

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	
ST-GERT-3-U100	signotec Gamma USB, 2,7 m USB-cable
ST-GERT-3-UFT100	signotec Gamma FTDI (VCOM) and USB approx. 2,7 m (USB 2serial)

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