

signotec Zeta

Highlights & Data Sheet



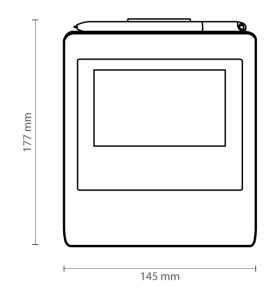


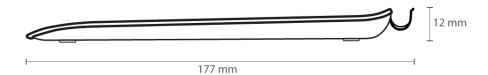




HIGHLIGHTS

- Monochrome 4,5" (11,4 cm) TFT with optional backlight.
- Extremely robust hardened sensor surface made of special glass (8H) with ER-technology.
- Flat, light and cost-efficient build for stationary and mobile usage.
- Unique RSA-signature creation and RSA-encryption methods inside the pad.
- Battery-free pen with changeable pen tip.
- Signature capturing with 500 Hz 4D samples and 2.048 pressure stages (x, y, z, t).
- Compatible with all currently available Windows- and Linux- systems.
- Compatible with Windows Remote Desktop and Citrix ICA environments.
- 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 | USB |
| Cable length | Approx. 2,7 meters |
| Power consumption | Standby-status: 5 mA (HID/WinUSB) and 2 mA (FTDI) Consumption with LCD-Backlight: 75 mA Consumption without LCD-Backlight: 165 mA. |
| Power supply | USB |
| Status-LED | 2 coloured and freely programmable LEDs |
| Stand | Mounting stand on the backside, compatible Multigrip™ plate available |
| Weight | Approx. 240 grams (incl. cable) |
| Warranty | 2 years, optional extension up to 5 years. |
| Country of origin | Germany |

| Display | |
|----------------------------|--|
| Туре | Monochrome TFT |
| Size | 4,5" (11,4 cm) |
| Colour space | Monochrome |
| Backlight | Optional, brightness: 150 cd/m ² |
| Configuration of backlight | The backlight can be configured with an API or configuration file. |
| Resolution | 320 x 200 pixels ≙ 84 x 84 ppi |
| Pixel size | 0,285 mm |
| Visible area | 97 x 61 mm |
| Line of sight | 6 o'clock |
| Scroll-function | No |

| Sensor | |
|-----------------------------|---|
| Туре | ERT (Electronic Resonance Technology) |
| Active signing area | 96 x 60 mm |
| Resolution | 9.598 x 5.998 pixels ≙ 2.487 x 2.499 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 |
| 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° |
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Possible height of the pen 5 - 15 mm

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

Connection types

USB-HID and WinUSB

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

chargeable VCOM-Port-Driver.

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

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

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

Trusted certificates

The CSR can be signed by a root authority.

Additional information: eIDAS Pad Signature Seal

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

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

2048 Bit: 800 ms; 3072 Bit: 2.300 ms; 4096 Bit: 5.200 ms

signotec "Content-Signing" No

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 The standby image is freely configurable.

Certifications and standards CE, FCC, DIN EN 55032, DIN EN 55024, EN 62368-1)

RoHS RoHS-compliant according to EU-regulations.



| WEEE-RegNo. (German register for used devices) | DE 41995888 |
|--|---|
| Packaging law RegNo.: | DE 3470684644700 |
| Serial number | Unique and retrievable, internal serial number. |
| Device label | There is a label on the packaging and the device with information regarding the |

| Operating and storage conditions | | |
|--|------------------------|--|
| Operating temperature | -10°C to +60°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 | |
|------------------------------|---|
| <u>Without</u> LCD-Backlight | |
| ST-ZMERT-3-U100 | signotec Zeta with USB and approx. 2,7 m USB-cable |
| ST-ZMERT-3-FT100 | signotec Zeta with virtual COM-Port via USB and approx. 2,7 m USB-cable (USB 2serial) |
| | |
| <u>With</u> LCD-Backlight | |
| ST-ZBERT-3-U100 | signotec Zeta Backlight with USB and approx. 2,7 m USB-cable |
| ST-ZBERT-3-FT100 | signotec Zeta Backlight with virtual COM-Port via USB and approx. 2,7 m USB-cable (USB 2serial) |

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