

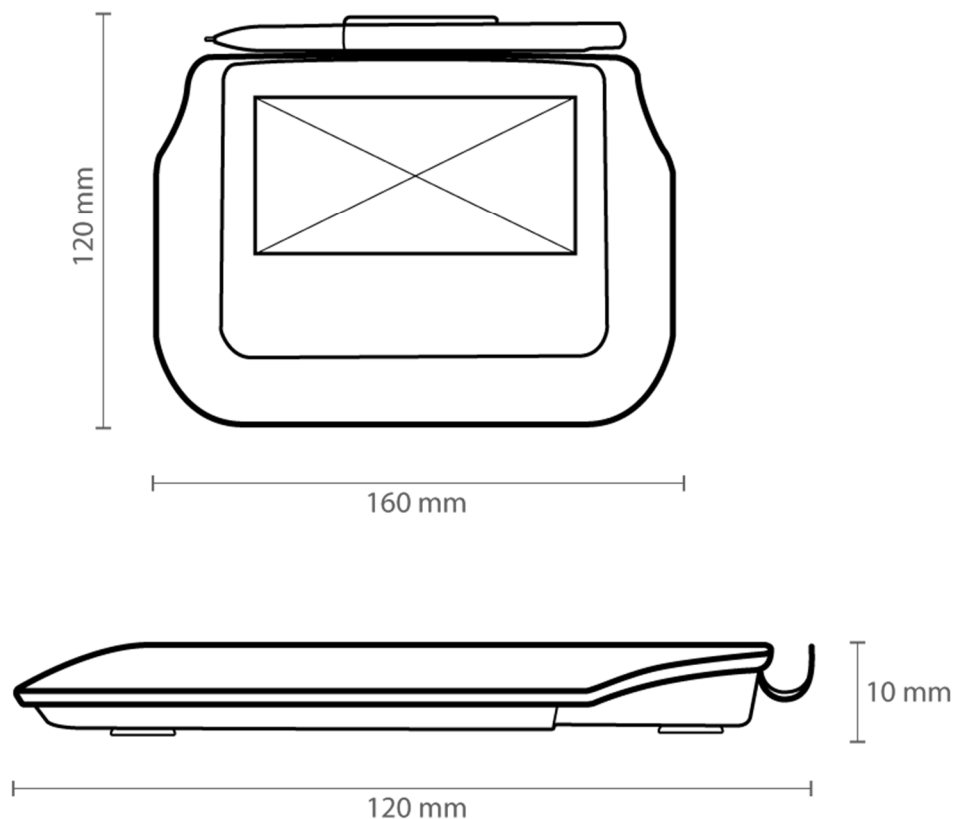
signotec Sigma LITE

Highlights & Data Sheet



HIGHLIGHTS

- Cost-efficient signature pad without display 10,4 cm (4") active signing area.
- Special signing surface for precise signature capturing.
- Signature capturing with 500 Hz 4D samples and 1.024 pressure stages (x, y, z, t).
- Including soft case for transport protection.
- Including free of charge software packages.
- Unique RSA-signature creation and RSA-encryption methods inside the pad.
- Secure Mode to display the signature on the screen in real-time.
- Various options for the secure management of certificates and keys in the pad.
- Delivery comes with completely assembled USB cable, pen and cord.



TECHNICAL DATA

General data

| | |
|-------------------|--|
| Dimensions | 160 x 120 x 10 mm (W x D x H) |
| Casing colours | Upper shell: RAL 7021, black-grey Lower shell: RAL 7021, black-grey |
| Cable port | USB |
| Cable length | Approx. 2 meters |
| Power consumption | Standby-status: <500 μ A Running: 20mA |
| Power supply | USB |
| Status-LED | 2 coloured and freely programmable LEDs |
| Stand | Mounting stand on the backside, compatible Multigrip™ plate available. |
| Weight | Approx. 170 grams (incl. cable) |
| Warranty | 2 years, optional extension up to 5 years. |
| Country of origin | Germany |

Display

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|----------------------------|--|
| Type | Plastic surface for signature capturing. |
| Size | 4" (10,4 cm) |
| Colour space | No |
| Backlight | No |
| Configuration of backlight | No |
| Resolution | No |
| Pixel size | No |
| Visible area | No |
| Line of sight | No |
| Scroll-function | No |

Sensor

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|----------------------------|---|
| Type | Resistive Touch Panel (RTP) |
| Active signing area | 91 x 45 mm |
| Resolution | 4.096 x 4.096 pixels \pm 2.214 x 1.130 ppi |
| Linearity | \pm 1,5% in x-, y- and z- direction |
| Method of input | Special sensor for pen input |
| Surface | Special signing surface with wear-protection. |
| Surface hardness | No |
| Life expectancy | Approx. 2 million signatures |
| Pressure stages | 1.024 pressure stages |
| Output rate of coordinates | 500 Hz 4D-samples (x, y, z, t) |
| Internal sampling rate | 6.000 samples per second |
| Stability of output rate | Constant through integrated quartz |
| Pen | Battery-less pen with special, spring-loaded lead (changeable). |
| Life expectancy of the pen | Approx. 150.000 signatures at 250 grams pressure and 2,5 cm length. |
| Pen tilt angle | No |
| Possible height of the pen | No |
| Pen attachment | Highly flexible textile-cord and horizontal pen holder. (assembled at the factory) |

Connection types

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| USB | HID-USB 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

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|---------------|---|
| 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

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| 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

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| 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. |
| Trusted certificates | The CSR can be signed by a root authority. Additional information: eIDAS Pad Signature Seal |
| Supported Hash-algorithms | SHA-1, SHA-256 und SHA-512 |
| Signature-Performance | Transmission and Signing of a SHA-256 Hash via WinUSB: 2048 Bit: 850 ms; 3072 Bit: 2.500 ms; 4096 Bit: 5.600 ms |
| signotec „Content-Signing“ | No |
| Protection against forceful break in | The casing can be glued optionally. |

Miscellaneous

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|--|---|
| Transport protection | Protective transport-bag (soft case) included. |
| Individualization | Change of casing colour and logo print (on request). |
| Slideshow | The standby image is freely configurable. |
| Certifications and standards | CE, FCC, DIN EN 60950-1, DIN EN 61000-6-1, EN 61000-6-3, EN 55022, EN 55024 |
| RoHS | RoHS-compliant according to EU-regulations. |
| WEEE-Reg.-No. (German register for used devices) | DE 41995888 |
| Packaging law Reg.-No.: | 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 article number, hardware revision and serial number, including a barcode. |

Operating and storage conditions

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|--|------------------------|
| 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

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| 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-LTE105-2-U100 | signotec Sigma Lite with HID-USB and approx. 2 m USB-cable |
| ST-LTE105-2-FT100 | signotec Sigma Lite with FTDI (VCOM) and approx. 2 m USB-cable |
| ST-LTE105-5-U100 | signotec Sigma Lite with HID-USB and approx. 5 m USB-cable |
| ST-LTE105-5-FT100 | signotec Sigma Lite with FTDI (VCOM) and approx. 5 m USB-cable |

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