

signotec Omega

LCD Colour Signature Tablet

Description and data sheet



MADE IN GERMANY

 Quality • Security • Ecology

Version: 4.0

Date: 2017-04-24

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

- Affordable signature tablet with 5" colour TFT
- High resolution colour display with 640 x 480 pixels
- Adjustable LED-backlight
- Flat and extraordinary design
- Very flat surface without depressions or edges
- No special pen or batteries required
- USB cable is firmly linked with the pad (Anti-theft protection)
- Long service life and robust
- Outstanding technical data for digitising signatures
- High security due to encrypted data transfer
- Internal RSA-signature creation device and RSA-encryption methods
- Customer-defined case colour and logo
- HID-USB – no driver installation required
- Graphic compression to reduce transmission time
- Optional internal USB converter – virtual serial port for terminal server support
- Automatic pad recognition
- Self-sufficient slide show with up to 10 graphics
- Display of coloured graphics, buttons and text
- Display of various fonts and font sizes
- Scroll function for graphics up to a size of 640 x 960 pixels
- Output of up to 500 samples per second of the X-, Y-, time and pressure coordinates
- The model number and firmware version of the pad is retrievable
- Retrievable explicit serial number
- Auto-Power-Off with relevant signal on USB bus
- Signature display in real time
- Secure mode is only transmitting unusable data of the signature for real time display



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 | 15 mm |
| Width | 180 mm |
| Height | 191 mm |

| Display | |
|-------------------|-----------------------------------------------|
| Type | 5" (21 cm), full colour-TFT with backlight |
| Number of colours | 65.536 |
| Resolution | 640 x 480 pixel absolute \pm 161 x 161 ppi |
| Scroll function | For graphics up to a size of 640 x 960 pixels |
| Pixel size | 0,0529 x 0,1587 mm |
| Visible area | 101 x 76 mm |

| Sensor | |
|----------------------|--------------------------------------------------|
| Active signing area | 100 x 75 mm |
| Resolution | 4096 x 4096 pixel absolute \pm 1388 x 1040 ppi |
| Linearity | \pm 1,5 % in x-, y- und z- direction |
| Input method | Special sensor for pen input |
| Surface | Special surface for pen input |
| Pressure sensor unit | 1024 pressure stages |
| Pen | No special pen – cheap replacement |

| Electronics/Digitisation | |
|------------------------------------|-------------------------------------------------------------------------|
| Output rate of coordinates | Up to 500 Hz 4D samples (consisting of x, y, time, pressure) |
| Internal sampling rate | 6.000 samples per second |
| USB port | USB-HID Full-Speed (full-speed interrupt transfers) |
| 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 |
| 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 RSA key exchange |
| Serial number | Unique and retrievable internal serial number |
| Status display | 2 coloured and freely programmable LEDs |
| Power consumption | 390mA; while in standby 13mA in HID mode and 8mA in serial mode |
| 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 | USB |
| Cable length | 2,0 m or 5 m |
| Weight | 356 gram |
| Pen attachment | Highly flexible textile tether |
| Certifications and standards | TÜV, CE, DIN EN 60950-1, DIN EN 61000-6-1, EN 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) and later, Windows Server 2003 and later, Windows Terminalserver support, Linux; 32 and 64 Bit |
| 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

| | |
|-------------------------------------------------------------------------------|-------------------|
| Colour Pad signotec Omega with HID-USB – 2,0 m | ST-CE1075-2-U100 |
| Colour Pad signotec Omega with virtual COM-Port via USB – 2,0 m (USB 2serial) | ST-CE1075-2-FT100 |
| Colour Pad signotec Omega with HID-USB – 5 m | ST-CE1075-5-U100 |
| Colour Pad signotec Omega with virtual COM-Port via USB – 5 m (USB2serial) | ST-CE1075-5-FT100 |

Article number description:

| | |
|-------------|--------------------------------------------------|
| ST | Manufacturer (signotec) |
| C | Colour LCD |
| E | Encrypted data transfer |
| 1075 | Sensor size (10 cm x 7,5 cm) |
| 2,(5),(0.2) | USB cable length (2, 5 or 0,2 meter) |
| U | HID-USB |
| FT | Internal virtual COM-port converter (USB2Serial) |
| 100 | Standard colour regarding the overlay and case |

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