

SINA[®] Terminal H Client III

High-Performance Crypto Thin Client



Benefits:

- » approved for German national GEHEIM, NATO SECRET and SECRET UE/EU SECRET
- » Intel[®] Core[™] i7 CPU, 4 GB RAM and 24" TFT
- » Multi Level Data Separation
- » Faster switching between working environments (sessions)
- » Audio support

The SINA Terminal H Client III is a thin client with smartcard-based authentication and IPsec-secured communication. The multi-session-capable crypto client communicates VPN tunnel-secured with terminal server areas. According to the requirements of the deployment scenario, different classified terminal sessions can be combined and used in parallel.

The SINA Terminal H Client III is a crypto client that was developed in cooperation with the German Federal Office for Information Security (BSI) for processing, storage and transmission of classified information up to and including German national GEHEIM. In addition, the SINA Terminal H Client III is approved for NATO SECRET and SECRET UE/EU SECRET. The focus is on national and international military and governmental high-security networks.

High-performance cryptography

The SINA CORE-based SINA Workstation H Client III are significantly more powerful than the PEPP-based SINA Clients. This is evident when establishing new security associations and VPN encryption. Due to the inclusion of different crypto device classes and the reloadability of new crypto device classes, the SINA Terminal H Client III can be used with high flexibility.

Hardware platform for special requirements

The operational experience with the SINA Client in the Afghan(istan) Mission Network and initial evaluation results with the previous generation in military command information systems of the German Federal Armed Forces, led to a forced further development of the SINA Clients. This benefits both the SINA Workstation and the SINA Terminal. The aim was to provide an especially powerful system also in the terminal configuration for load-intensive multi-session scenarios, which are characteristic of this application environment, and for the associated high demands on the hardware platform.

This includes a 64-bit processor with four cores and 4 GB of main memory. In addition, the user requirements for graphic information systems applications are even better met with the high-resolution 24" TFT displays.

Ergonomic system design

Like the predecessor model, the main unit in the new generation of devices can be operated vertically. The new 24" TFT displays can now be adjusted in terms of height, inclination and viewing angle and, for the first time, offer a modern digital interface for zoned SINA devices. This enables fatigue-free working with high resolution and clear image.

Multimedia support

The differences in performance compared to the predecessor model become clear when playing HD videos. Unlike the former SINA Client version the sound output can now be used by all (active) sessions. Because of the sound issues relating to approval, sound input (via microphone) is still only allocated to a specific session.

In addition, the SINA Terminal H Client III supports a VoIP session for SIP/RTP-based telephony with a Soft Phone application. For example, it is possible to connect a classic IP telephone via the "red" network interface.


Satellite communication

Professional applications via commercial Satcom IP services such as BGAN place high technical requirements on the crypto devices used. In tests by the German Federal Armed Forces, it has been proven that the SINA Client supports applications such as video conferencing even with double-hop satellite connection.

Management

The SINA Workstation is configured and controlled centrally by SINA Management. An integrated public key infrastructure (PKI) with associated user management supports essential administrative processes involving SINA Smartcards or SINA Smartcard Tokens. This includes, in particular, their personalization, the generation or updating of keys and cryptographic parameters as well as the administration of the associated PINs and PUKs.

Approval-related construction classes

|  SINA Terminal H Client III | |
|--|--|
| Approval | German national GEHEIM, NATO SECRET and SECRET UE/EU SECRET |
| Boot integrity protection | coreboot |
| Software versions | 2.8 |
| SINA CORE device class | National 1.x (PEPP-compatible) NATO 1.x (PEPP-compatible) EU 1.x (PEPP-compatible) |
| Manipulation protection | SINA CORE |
| Emission protection | Zone 1 (SDIP 27 Level B) |
| Authentication token | SINA Smartcard SINA Security Tokens |

Technical data

| General data | | |
|-----------------------|--|---|
| Size (W x H x D) | without stand 403 x 123 x 403 mm | ■ |
| | with stand (vertical) 237 x 425 x 403 mm | ■ |
| Weight | 10 kg (main unit) | ■ |
| Service compartment | Battery | ■ |
| Performance data | | |
| CPU | Intel® Core™ i7 processor | ■ |
| RAM | 4 GB RAM | ■ |
| Graphics | Intel® HD Graphics 4000 | ■ |
| Boot medium | 2 GB SSD | ■ |
| DVD burner | DVD/CD-RW | ■ |
| Sound | inbuilt speakers with volume control on the device | ■ |
| Voltage supply | 110-240 V | ■ |
| Power consumption | 90 W (at 230 V) | ■ |
| Monitor | | |
| Display | 24" TFT-LCD active matrix, 16:10 (W x H: 550 x 360 mm) | 1x or 2x |
| Resolution | 1920 x 1080 (HD) | 1x or 2x |
| Front interfaces | | |
| USB 3.0 | Type A | ■ |
| USB 2.0 | Type A | ■ (in recess) |
| Plug-in slot | For SINA Security Token with anti-twist safeguard | ■ |
| Smart card reader | | ■ |
| Audio | D-Sub 9-pos. (for headset) | ■ |
| Rear interfaces | | |
| USB 3.0 | Type A | 3x |
| USB 2.0 | Type A (e.g. for keyboard and mouse) | 3x |
| Monitor | Display port for SITEMP monitor zone 1 | 2x |
| Network | 100/1000 Mbit LWL interchangeable, LC | 2x (1 x "black" SINA CORE, 1 x "red" e.g. for VoIP) |
| Temperature ranges | | |
| Operation | +5 °C to +40 °C | ■ |
| Transport and storage | -25 °C to +60 °C | ■ |

More information:
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