



IP VPN Encryption HC-7805 Small Office Version

LAN/WAN connections offer no guarantee that the data and information transmitted in the network remain confidential. The simplest way for you to solve this problem is with the IP VPN Encryption HC-7805 Small Office Version. It enables you to set up your personal, totally secure IP Virtual Private Network, giving you secure access to your infrastructure. Even if you use nationally or internationally accessible public WANs.

If you work with a LAN-connection, you unintentionally transmit information beyond your own network topology into other networks – and as a result you ‘unavoidably’ use unprotected public and private network connections. Or by using IP technology, you communicate not only via the ethernet but also via other transport media. These processes take place completely unnoticed. As a consequence, your data and information are exposed to many uncontrollable information risks. However, you can very easily eliminate these risks by simply linking the IP VPN Encryption units between your PC or laptop and the LAN switch. This means that your entire data traffic (including, for example, IP telephony) is protected by IP encryption – no information is exchanged between your VPN and the transport network.

The unit is designed to operate in a triple-play environment (real-time voice/IP-telephony, video and data), offers a high transmission speed (10 Mbps) and supports all standard access technologies. So you can use it virtually anywhere and independent of the technology.

The cryptographic Security Architecture offered by Crypto AG protects your information at the highest level: Encryption takes place in a separate, tamper-proof hard-

ware encryption module – this makes it impossible to attack information from the network. Because you exclusively use symmetric, totally secret algorithms which you can profile yourself, cryptographic attacks are precluded, too. The multi-key design supports the standard star, mesh or mixed network technology.

With the optional Security Management Centre SMC-1100, you can comfortably and centrally manage the online or offline key distribution as well as other security management tasks – at the same level of security as the communication itself. The IP VPN Encryption HC-7805 Small Office is fully compatible with the other VPN units by Crypto AG.

Key features

- Highly secure, compact desktop VPN encryption units on IP-basis which transforms your communications network into a secure IP VPN
- You have protected access to your infrastructure via any chosen communications networks (nationally or internationally accessible LAN/WAN) and can work free from worry everywhere
- The units can easily be connected by cable between the terminal and the network connection, with plug-and-play start-up
- All applications based on the IP protocol, such as IP telephony, data or video, are protected
- The highly secure, hardware-based encryption takes place with symmetric, secret user-profiled algorithms
- The comfortable PC-based management of the network and security functions guarantees the highest degree of availability and efficiency during operation
- HC-7805 is compatible with all other IP VPN units by Crypto AG

Cryptography & Security

Algorithm

- HCA-480, customer-specific cipher algorithm
- Customer managed profiling of algorithm by CMP with variety > 10⁵06
- Mutual key agreement scheme for generation of short-term Communication Keys (CKs)
- Each encrypted tunnel uses independent communication keys
- Built-in high-quality true random generator

Keys

- Customer-defined Master Communication Keys (MCKs, for CK generation) stored in tamper-proof security module
- Master communication keys and communication keys with variety > 10³⁸

Key management

- Manual key input via user interface
- Copy / backup of key and installation data by Security Data Carriers (SDCs)
- Offline with SMC-1100 IP VPN and SDC
- Online with SMC-1100 IP VPN

Tamper-proof design

- Role based access control
- Block function
- Emergency clear
- Tamper evidence
- Tamper detection & response (reset to ex-factory state)
- Metal housing with mechanical lock
- Built-in security module

Services

Services supported

- Unicast IP VPN tunnels (tunnel mode)
- Multicast IP VPN tunnels (tunnel mode)
- Throughput > 9 Mbps with 1500 byte IP packets
- Up to 250 tunnels
- Star and/or mesh topologies
- Traffic types: data/voice/video

Quality of service (QoS) support

- TOS/DSCP forwarding
- Configuration of TOS/DSCP for key agreement
- Replay protection window size 64 packets

Home-side services

- DHCP server
- Static routing or RIP-II

World-side services

- DHCP client
- NAT support

Features

User interfaces

- Keypad
- LCD display
- Status LEDs

Payload (home/world) interfaces

- IEEE 802.3 Ethernet
- Home 10BASE-T/100BASE-TX, RJ45
- World 10BASE-T, RJ45

Management interfaces

- Local management (AUX) 10BASE-T, RJ45
- Diagnostics interface RS-232, RJ45
- Built-in smart card reader

Management

- Security Management Centre (SMC-1100)
- Local management via keypad and display
- Local management via browser based user interface
- Remote management via ciphered browser connection (RAD-1100)
- Remote software update
- Time Server Support (SNTP)
- Network Management System (NMS) integration support (SNMPv1/Standard MIB II)

Maintenance

- Built-in test equipment (BITE)

Power supply units & cooling

- AC input, 100...240VAC/50...60Hz
- Power consumption < 6W
- Cooling without fans

Mechanical

- Office desktop housing
- 220 x 205 x 44 mm W/D/H
- 1.5 kg

Reliability

- MTBF: > 50,000 hrs

Environmental data

- Operating temperature: 0 °C...+50 °C
- Storage temperature: -25 °C...+70 °C
- Humidity: 5%...95%, non-condensing

EMC / Safety

- EN 55022 class B/EN 55024
- EN 60950-1

Quality system / Conformity

- ISO 9001:2000
- CE (European conformity)

Accessories / options

- Security Management Centre SMC-1100 IP VPN
- Remote Access Device RAD-1100
- Security Data Carriers SDCs
- Optical home interface 100BASE-FX

IP VPN Systems

