



Deployable Secure Satellite System DSSS-1021-xx

IT Office RT Comms Inmarsat BGAN

Satellite communication offers a powerful means of communication independent from terrestrial infrastructure – nowadays even via broadband access to the Internet. With a small, portable satellite terminal you can connect to your office via remote access and do your tasks such as telephone calls and use other IT applications wherever you are. However, satellite links are one of the most intercepted communication channels and therefore must be protected with encryption.

The „IT Office RT Comms“ system DSSS-1021-xx from Crypto AG offers a compact all-in-one solution, which can be operated remotely from a central ICT infrastructure wherever you are.

The „IT Office RT Comms“ system is a mobile application and communication platform, integrated in a single case. It enables secure local operation of e-mail, VoIP, video and other applications via remote access to a central ICT infrastructure at the head office. The connection and thus the data traffic of all applications to the corresponding ICT system environment (and/or between mobile „IT Office RT Comms“ themselves) is completely protected by VPN encryption. The Internet (or a dedicated IP network) serves as the transport network. The Internet can be accessed via satellite, an existing Ethernet connection or a WLAN Hotspot. Even a GSM network can be used by means of an additional UMTS router or a GSM mobile phone. The system comes ready-to-use – it only needs to be configured for the integration in the existing ICT environment.

The standard version is based on a multimedia-capable netbook with Windows XP® and a programme to control the satellite terminal. The incorporated Linksys components support SIP as the session initialisation protocol (for VoIP, video or fax over

IP). The built-in network of the Crypto Mobile Client HC-7835 is preconfigured in such a way that the netbook can be used to address all components and to configure the system. There are optional security features, such as storage of encrypted data in the HC-7835 and encrypted storage of confidential files, e.g. e-mail attachments on the netbook. The integrated battery works as a uninterruptible power supply unit (UPS), which guarantees autonomous operation for about three hours. The battery can be charged with AC or DC power (e.g. from a car battery or a solar panel). The aluminium case is sturdy yet elegant. An attachable trolley is a convenient feature for travel.

Key features

- All components are packed and pre-wired in an elegant and robust carry-on case
- Simple operation via connection to any Internet access point
- Internet Access via satellite or terrestrial networks such as UMTS, WLAN Hotspot, etc.
- After successful user login all applications are ready-to-use
- Autonomous operation for approx. three hours with integrated rechargeable UPS-battery
- High security encryption in a tamper-proof hardware module with your own secret algorithm
- Crypto Mobile Client HC-7835 is compatible with all other IP VPN units from Crypto AG
- Local security by Encrypted Storage of confidential data in the Crypto Mobile Client and Message/File Encryption

General Data

Built-in components (standard version)

- Crypto Mobile Client HC-7835 IP VPN
- Inmarsat BGAN Terminal Explorer 500
- Thrane BT phone TT-3625A
- Netbook
- VoIP phone Linksys-942-EU
- A6 printer Brother MW-260
- Switch ZyXel ES-105A
- Uninterruptible power supply unit (UPS) Tekkeon MP3450
- All necessary accessories such as cables, AC/DC adapters, etc. (Exact models are subject to change)

Crypto Mobile Client HC-7835 IP VPN

- Up to 1, 4 or 8 Mbit/s (1 Mbit/s without WLAN interface)
- Up to 32 secure VPN tunnels
- OS independent
- Secure Local Data Storage (optional)
- File/Message Encryption (optional) (Refer to the data sheet HC-7835 for details)

Operating system

- Netbook: Windows XP
- VoIP telephony: SIP (CISCO on request)

Housing

- Dimension: Traveller Case W 490 x D 370 x H 160mm, attachable trolley
- Weight: the weight depends on the built-in equipment. Standard type: approx. 14kg (including a netbook)

User interfaces

- Keypad, LCD and LED (HC-7835 and VoIP Phone)
- Browser-based user interface (all components)
- Smart card reader (HC-7835)

Interfaces

- SAT/LAN/WAN: Ethernet/RJ45, 10BASE T
- PC: Ethernet/RJ45, 10/100
- Fax: 2-wire FXS ports RJ11 (optional)
- IP Phone/Fax: Ethernet/RJ45, 10/100
- Wireless world side:
 - WLAN, IEEE 802.11 b/g
 - Bluetooth V 2.0

Power supply

- Input
 - AC: 85...264VAC, 50/60Hz, 50 W
 - DC: 12...16VDC, max. 50W
- Output
 - DC: 12...16VDC, max. 50W (to charge the Explorer 500)
- Internal DC supply
 - DC: 5VDC (to supply the built-in devices)
 - DC: 5VDC adapter cable (to charge an additional device)
 - DC: 6.6VDC (to charge the BT phone)
 - Optional: 48VDC (e.g. for VoIP phones with PoE and 48VDC supply)
 - Internal power consumption: max. 10W
- Power autonomy
 - Operating hours network components: ~3 hours
 - Satellite terminal Explorer 500: ~3 hours
 - Netbook: ~7 hours
 - UPS Battery: 50Wh

Approvals

- EMC: EN 55022 class B/EN 55024
- Safety: EN 60950
- Quality system: ISO 9001:2000
- Conformity: CE (European conformity)

Algorithm

- Customer-specific cipher algorithm
- Customer managed profiling of algorithm by CMP
- Mutual key agreement scheme for generation of short-term Communication Keys (CKs)
- Built-in high-quality true random generator

Environmental data

Range for the various built-in components:

- Operating temperature: 0°C...+50°C
- Storage temperature: -20°C...+70°C
- Humidity: 93%RH/+55°C (according to EN 60068-2-30)
- Vibration: 10 ...150Hz, 0.8g effective (random)
- Drop: 0.75m, Shock: 25g, 6ms
- Internal protection: IP54

Options

- Message/File Encryption application for the HC-7835
- Secure Data Storage application for the HC-7835
- Non-standard netbook as specified by the customer
- Phone adapter for faxing over IP (primarily suitable over terrestrial IP networks)
- Scanner (e.g. for document scanning or fax over e-mail T.37)
- Integration of a GSM mobile phone or UMTS router to access the Internet
- Prepaid subscription to use Inmarsat BGAN services (air time) for a defined start-up time
- A stipulated CISCO phone (for a strictly CISCO/Call Manager System environment) as an alternative to the Linksys VoIP phone
- Thuraya IP terminal (instead of Explorer 500)

