

SECURE TELEPHONE Omnisec 222



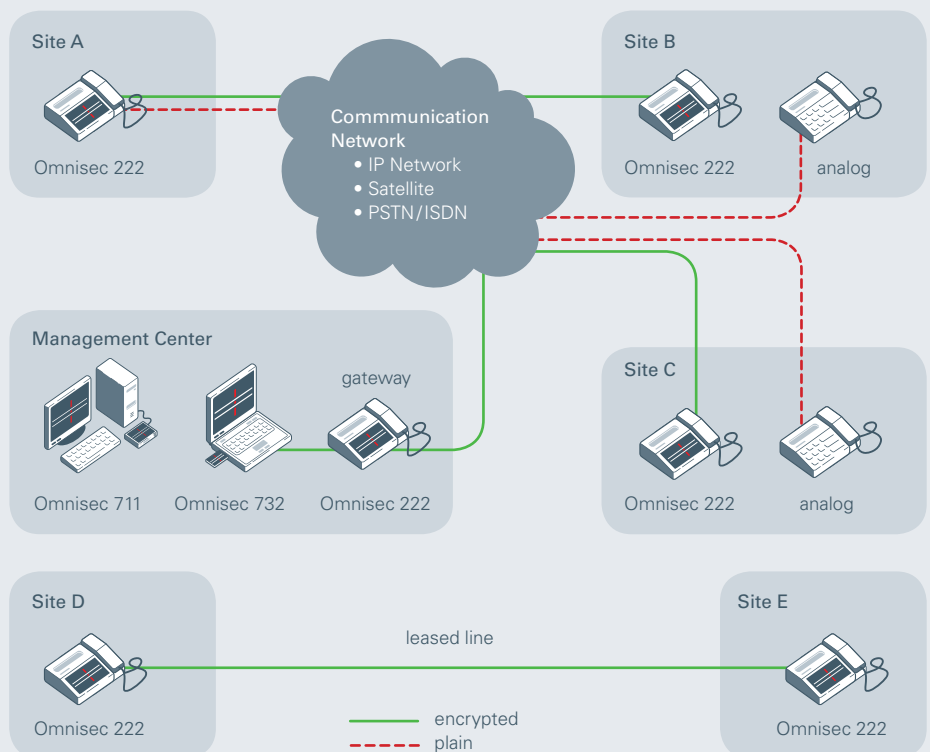
The Secure Telephone Omnisec 222 exemplifies Omnisec as the world's leading supplier of maximum-security, high-quality (ISO 9001 approved) communication solutions.

Communication security is based on Omnisec's security architecture **OmniCrypt™**: unique, short-lived bilateral Session Keys are generated from secret, long-lived Master Keys stored in removable **Security Modules**.

Customers are invited to assess and verify for themselves the implemented encryption procedures and algorithms.

The **Secure Telephone Omnisec 222** is more than an ordinary telephone. It is a powerful, flexible, and adaptable voice encryption system with many comfort features! Compared to other products on the market, users will notice the remarkably short delay when entering encrypted mode due to the deployment of modems using OFDM modulation. Another outstanding feature is that the two independent telephone interfaces allow any internal caller to be connected to an external partner over an encrypted line. The Omnisec 222 can be deployed over the PSTN or adapted for any other public or private network, such as ISDN, IP, or satellite. The enhanced user interface lets anybody work intuitively with all the built-in functions. At the same time the unique modern design lends a touch of class to the user.

The management tools. The Key Management Center Omnisec 711 programs the Security Modules for the Omnisec 222 devices. The Security & Network Management Center Omnisec 732 manages the Secure Telephones and supports offline/online distribution of the configuration, keys, the phonebook, and firmware updates via encrypted authenticated connections.





Secure Telephone Omnisec 222

Features of Release 3.x

The Omnisec 222 is designed to provide the customer with the highest level of confidentiality, data integrity, authenticity, and non-repudiation, based on Omnisec's verifiable security architecture OmniCrypt™.

User Advantages

- Very fast synchronization
- Simple installation and easy operation
- Excellent voice quality, perfect speaker recognition
- Large TFT color display
- Speaker mode
- Address book, caller list and speed dial buttons
- Centralized configuration, key, and phonebook distribution
- Basic secretary function
- Language support for German, English, Spanish, French
- Country-specific telephone pre-settings

Technical Functions

- Compatibility with Omnisec 21x
- Two PSTN channels either OFDM or V-mode
- Dual-line encryption
- Leased line operation
- Integration into OmniCrypt online network management architecture
- Event logging
- Remote configuration and diagnostics
- Local and remote firmware updating
- Built-in Test Equipment (BITE)
- Blacklisting of lost or stolen Security Modules
- Encrypted conference calls (3 parties)

Security Features

Security architecture OmniCrypt

- Multi-barrier software and hardware architecture with supervision mechanisms
- Omnisec-proprietary cypher algorithms

Master Keys

- Derived from a true white-noise source
- Length: 256 bit; diversity: 10^{77}

Session Keys

- Diversity: 10^{77}
- Used once and only once
- Automatic renewal for each telephone call

Key Management

- Authenticated Key Agreement (AKA) protocol to generate secret Master Keys
- Online/offline key distribution
- Built-in Key Equipment (BIKE) for up to 10 stations

Mechanical Protection

- Lock prevents unauthorized opening of the unit and locks in the Security Module
- Tamper-evident casing

Emergency Erasure Function

- Erases Master Keys

Technical Data

Power

- Voltage: 100 ... 120/200 ... 240 VAC, 50 ... 60 Hz (external power supply)
- Power consumption: ~25 VA
- Lithium battery for data retention

Safety Conformity

- EN 60950-1:2006
- RoHS compliant

Electromagnetic Compatibility (EMC)

- Radiation: EN 55022 class B
- Immunity: EN 55024

Environmental Test Specifications

- Temperature range (IEC 60068-2-1 Ad, IEC 60068-2-2 Bd): storage $-25 \dots +70 \text{ }^\circ\text{C}$, operation $0 \dots 50 \text{ }^\circ\text{C}$
- Humidity (IEC 60068-2-78 Cab): $40 \text{ }^\circ\text{C}$, 93% RH, non-condensing, 10 days, 8 days in operation
- Random vibration (MIL-STD-810E, method 514.4-7)¹: $10 \dots 40 \text{ Hz}$, $0.015 \text{ g}^2/\text{Hz}$, $40 \dots 500 \text{ Hz}$, $0.00015 \text{ g}^2/\text{Hz}$, 3 axes each 1h, equivalent to 1000 miles common carrier transportation
- Shock (IEC 60068-2-27 Ea): 50 g, 6 ms
- Fall (IEC 721-3-2 2M2)¹: 1.2 m on concrete
- Drop (IEC 60068-2-31 Ec): 0.1 m on concrete (all corners/edges)

Reliability

- MTBF (MIL-STD-217F, Notice 2) at $t_{amb} = 25 \text{ }^\circ\text{C}$: $>30 \text{ 000 h}$

Dimensions

- $w \times h \times d$: $483 \times 43 \times 410 \text{ mm}$
- Weight: 3.3 kg (incl. power supply)

Management Tools

- Key Management Center Omnisec 711 and Security Module Programmer Omnisec 704
- Security & Network Management Center Omnisec 732 for offline/online configuration, key, phonebook, and firmware updating
- Blacklisting function

¹ in transport package

We strive to continuously improve our offerings and therefore reserve the right to change specifications without notice.