



# Xaos Gamma

Encrypting mobile solution for business



## SECURE COMMUNICATION

Xaos Gamma is an encrypting mobile phone destined to highly demanding business users who expect security for calls and data transfers. This is the first in the world solution featuring extremely fast secure calls setup time with excellent voice quality. Efficient implementation of elliptic curve cryptography guarantees unparalleled levels of security. Optimal implementation allows us to give you a professional solution for a competitive price. The encrypting functionality is completely independent of the telecommunication provider. It works with standard as well as pre-paid SIMs. Xaos Gamma can be also used in roaming mode.

Xaos Gamma is designed to operate in standard GSM network offering encrypted and plain calls, encrypted and plain SMS messages. Its Contacts is capable up to 5000 entries. All the data stored in the device is encrypted, and the device is protected against manipulation and replacement. The device is optimized for security. Encrypted call is established in 1.5s. Compressed voice stream is additionally protected against disturbance thanks to sophisticated error correction techniques. There is no competitive device with such parameters.

Xaos Gamma features nice voice quality using AMR voice coder. The voice delay is the shortest possible, less than 0.5s. This together with advanced echo cancellation procedures gives encrypted calls comfortable in all situations.

The solution implements built-in cryptography with user friendly, instant graphical interface working in intuitive manner. The user need not to be an expert. All encrypting functionality is easy accessible. Calls register and Contacts of huge capacity allow to easy maintain different kinds of entries.

Xaos Gamma gives you not only security for voice but also for data connections. Virtual Private Network based on IKEv2 standard enables effective tele-working and secure data access.

In spite of its cryptographic and security capabilities the device features extended operation time. Standby time, up to 300 hours allows you to forget the charger while calls time up to 6 hours, indifferently on connection type makes you free to connect people.

Xaos Gamma is a member of a worldwide unique SYLAN system family of encrypting phones. These are devices working interoperably on different kinds of landline and mobile interfaces.

## IMPORTANT

ADVANCED CRYPTOGRAPHY

USER FRIENDLINESS

DATA SECURITY

LONG STANDBY TIME

LONG CALLS TIME

INTEROPERABILITY

RELIABILITY

## MEMBERS OF SYLAN SYSTEM

PSTN: PLATINUM, GOLD

ISDN: TITANIUM, DIAMOND, FAXA

GSM: KRYPTON, XAOS GAMMA

Phone	
GSM network	GSM 850/900/1800/1900
Battery	Li-Ion, 1000mAh
Standby time	Up to 300 h
Calls time (encrypted or plain)	Up to 6 h
Internal memory	8 MB
Weight with battery	120 g
Dimensions	117 x 25 x 51 mm
Display	TFT 176x220 pixels, 262 000 colours
Battery charging	Supplied charger or USB

Encryption	
Encryption algorithm	AES256
Key exchange	Elliptic Diffie-Hellman scheme, curves: NIST P-224 (ansix9p224r1), NIST P-256 (ansix9p256r1), NIST P-384 (ansix9p384r1) or NIST P-521 (ansix9p521r1).
Key exchange time (without authentication)	1.5 s assuming low bit error rate.
Voice transmission delay	450 ms
SMS keys	Derived from last encrypting key for particular pair (sender-receiver).
Data confidentiality	Encrypted file system. The key is unique for each device.
Data protected	Internal software, Contacts, SMS messages, connection logs

Data transmission and configuration	
GPRS	Class 10
EDGE	Class 10
Connection to PC	USB 2.0 FullSpeed
Local configuration	Using WWW browser or supplied Audit.exe application.
Remote configuration	WWW browser.

SMS and Contacts	
SMS	Plain and encrypted
Contacts entries	Up to 5,000
Fields	Forename, surname, company, 4 numbers, address, function, email, www.
Ordering	Surname, forename, company.
Searching	Filtering by entered phrase or group name.
Groups	Up to 30



User interface	
Rings	True tone.
Loudspeaking mode	Only plain connections.
Portable hands free	Wired, standard supply.
Vibrator	Configured (on/off).
Clock	Real time clock presented on the screen. Accuracy error up to 30 seconds a month.
Screen profiles	5 editable profiles accessible under on/off switch.