



## XIPmite Encryption

XIP Technology AB offers encryption that provides state-of-the-art protection against wire-tapping / Internet snooping.

Encryption is a good way of protecting confidential business conversations from being wire-tapped. Security policies often comprises encryption of data. By using XIP Encryption, speech can also be secured.

Unprotected encryption keys are a fundamental cause for security breaches in key systems. All levels of XIP Encryption makes frequent changes of encryption keys possible.

The dynamic asymmetric key management of XIP Encryption enables extra security that prevents hackers from gaining access to encryption keys.

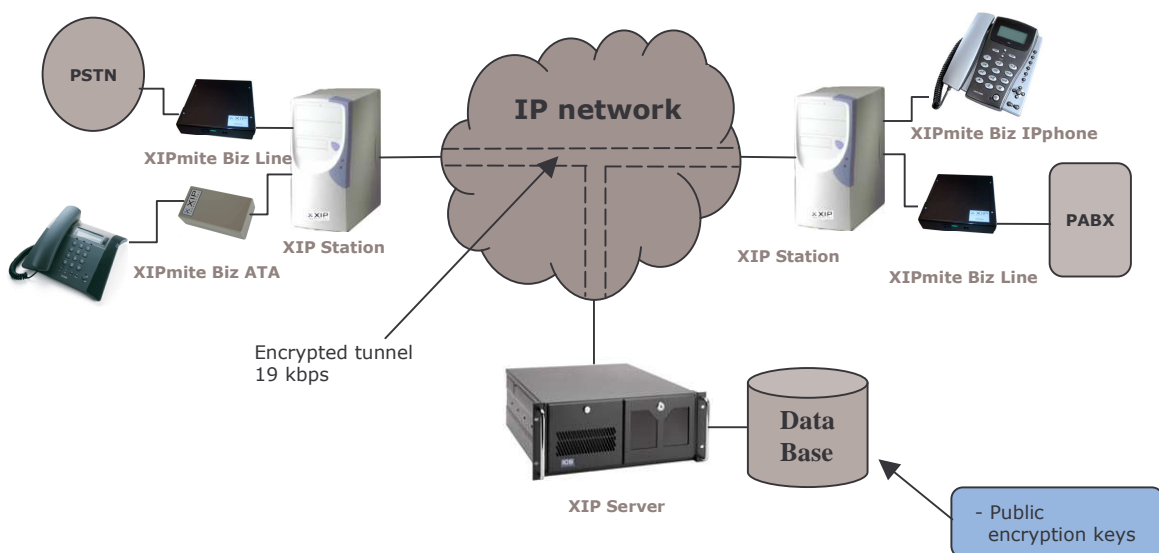
XIP Encryption provides three levels of protection to choose from.

### How XIP Encryption works

Prior to every call, a strong encryption key is negotiated between involved XIPmite Stations. This unique and temporary key is exchanged, using Public Key encryption.

The public keys of all XIPmite Stations are managed by XIP Server (level 2 & 3).

Speech data is encrypted, using bit lengths of 256 up to 2048 bits.





## XIPmite Encryption levels

### Level AA1.

Basic encryption. 256 bit key-length.  
Encryption keys are manually changeable.

### Level AA2.

Enhanced encryption. 1024 bit key-length.  
New encryption keys are negotiated every call.  
Encryption keys are exchanged using Public Key method.

### Level AA3.

Use of customer provided encryption algorithm.  
Enables the customer to incorporate an own algorithm without third party involvement.  
A customer compiled encryption application is loaded into XIP Station via the user interface, and exchanges data with XIP Station via predefined interfaces.

## Examples of users for XIPmite Encryption

- Defence related industry
- Global or multi-national corporations with high secrecy demands
  - Industrial / Processing engineering firms
  - Banks
  - R&D
  - International Law firms
  - Partner firms or subsidiaries
- National, International authorities and public organizations

### Contact information

XIP Technology AB  
Box 437  
SE-551 16, Jönköping  
Sweden

Tel: +46 (0)36 150146  
Fax: +46 (0)36 150175  
E-mail: info@xiptec.com

### Specifications

#### Encryption methods

RSA  
Twofish  
Diamond II