

## NAME

gnutls\_cipher\_encrypt3 - API function

## SYNOPSIS

```
#include <gnutls/crypto.h>
```

```
int gnutls_cipher_encrypt3(gnutls_cipher_hd_t handle, const void * ptext, size_t ptext_len, void *
ciphertext, size_t * ciphertext_len, unsigned flags);
```

## ARGUMENTS

gnutls\_cipher\_hd\_t handle

is a **gnutls\_cipher\_hd\_t** type

const void \* ptext

the data to encrypt

size\_t ptext\_len

the length of data to encrypt

void \* ciphertext the encrypted data

size\_t \* ciphertext\_len

the length of encrypted data (initially must hold the maximum available size)

unsigned flags

flags for padding

## DESCRIPTION

This function will encrypt the given data using the algorithm specified by the context. For block ciphers, *ptext\_len* is typically a multiple of the block size. If not, the caller can instruct the function to pad the last block according to *flags*. Currently, the only available padding scheme is **GNUTLS\_CIPHER\_PADDING\_PKCS7**.

If *ciphertext* is not **NULL**, it must hold enough space to store resulting cipher text. To check the required size, this function can be called with *ciphertext* set to **NULL**. Then *ciphertext\_len* will be updated without performing actual encryption.

## RETURNS

Zero or a negative error code on error.

**SINCE**

3.7.7

**REPORTING BUGS**

Report bugs to <bugs@gnutls.org>.

Home page: <https://www.gnutls.org>

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**SEE ALSO**

The full documentation for **gnutls** is maintained as a Texinfo manual. If the /usr/local/share/doc/gnutls/ directory does not contain the HTML form visit

<https://www.gnutls.org/manual/>