

# aes\_encrypt

WMMEGA FW >= 2.1147 WM-M2 FW >= 3.1147

Encrypt data in **string** using the AES algorithm

## Description

```
string aes_encrypt ( string $data , int $length , string $key , string $iv )
```

Encrypts the string `$data` with length `$length` bytes. Pass the encryption key and iv value in the corresponding fields.

## Parameter

**\$data**: Data to encrypt - it should be a multiple of 16 bytes long

**\$length**: length of data

**\$key**: Encryption key - this should be multiples of 16 bytes long. A 16 character string will yield 128-bit encryption.

**\$iv**: This should be a unique 16 character string which will be used for the iv table

## Return Values

Encrypted **string** (or **int** 0 for error)

## Example

```
<pre><?
// create your custom key and IV value

$key="0123456789abcdef"; // this is 16 bytes, or 128 bits
$iv="abcdef0123456789"; // this needs to be 16 bytes long

$data="This is my super secret encrypted string";

// round up the string length to the nearest multiple of 16

$len=intval((strlen($data)+1)/16)*16;
```

```
// encrypt the data

$encrypted_data = aes_encrypt($data,$len,$key,$iv);

// store encrypted data into a base64-encoded string for easy transport

$base64_encrypted = base64_encode($encrypted_data);

print("Your encrypted data is: ".$base64_encrypted);

// this will yield:
// fcPkhW0UM4VIYB1CsbK/7wEBuC4WAwc05tDBkcMXbfmf/g0Hqdnrz5qHBRVY8Ls

// base64 decode the string again

$base64_decrypted = base64_decode($base64_encrypted);

// we will calculated the length from the base64 string rather than the
encrypted
// one as the strlen() function may not yield a valid result if the
encrypted string
// has a zero in it. As base64 is 6 bits and our data is 8, we just need
to multiply
// the the length by 6/8 or 0.75 to get the base64-decoded size.

$len = intval(strlen($base64_encrypted) * 0.75);

// decryption routine

$plain_data = aes_decrypt(&$base64_decrypted,$len,$key,$iv);

print("\r\nYour decrypted data is: ".$plain_data);

?>
```

The above example will output something similar to:

```
Your encrypted data is:
fcPkhW0UM4VIYB1CsbK/7wEBuC4WAwc05tDBkcMXbckp5yUp4a92BeD7VpVGwd1
Your decrypted data is: This is my super secret encrypted string
```

## See Also

[aes\\_decrypt\(\)](#) - Decrypt data using the AES algorithm

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