

# XMC1000

Microcontroller Series  
for Industrial Applications

Unique Chip Identifier

✓ UCID

Device Guide

V1.0 2013-07

Microcontrollers

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**Revision History**

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# Unquie Chip Identifier

## 1 The Unique Chip Identifier (UCID)

The device-specific Unique Chip Identifier (UCID) is a number that is unique for each device of the corresponding product, so each individual microcontroller can be identified by the application.

### 1.1 Access to the UCID in XMC1000

The UCID comprises 128 bits = 16 bytes = 4 words (32-bit).

After reset, the device-specific number is available in the Flash sector 0 at its base address 1000 0FF0<sub>H</sub>. User software may evaluate it there or copy it to another location for further usage.

An example code to read the UCID is as shown below:

```
uint32_t *UCIDptr;
uint32_t UniqueChipID[4] = {0,0,0,0};
uint32_t Count;

UCIDptr = 0x10000FF0;

for(Count=0; Count < 4; Count++)
{
    UniqueChipID[Count] = *UCIDptr;
    UCIDptr++;
}
```

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