

XMC1000

Microcontroller Series for Industrial Applications

Unique Chip Identifier
✓ UCID

Device Guide

Microcontrollers

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Revision History

Revision History					
Page or Item	Subjects (major changes since previous revision)				
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Last Trademarks Update 2011-02-24



Unique Chip Identifier XMC1000 Family

Table of Contents

Ta	h	ما	Ωf	Co	nto	nts
ıa	U		OI.	CU	HE	1112

1	The Unique Chip Identifier (UCID)6
1.1	Access to the UCID in XMC10006



The Unique Chip Identifier (UCID)

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Device Guide 5 V1.0, 2013-07



The Unique Chip Identifier (UCID)

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_H. 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++;
}
```

Device Guide 6 V1.0, 2013-07

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