

$PIC16C620 \rightarrow PIC16C620A \ Migration$

DEVICE MIGRATIONS

This document is intended to describe the functional differences and the electrical specification differences that are present when migrating from one device to the next.

- **Note:** This device has been designed to perform to the parameters of its data sheet. It has been tested to an electrical specification designed to determine its conformance with these parameters. Due to process differences in the manufacture of this device, this device may have different performance characteristics than its earlier version. These differences may cause this device to perform differently in your application than the earlier version of this device.
- **Note:** The user should verify that the device oscillator starts and performs as expected. Adjusting the loading capacitor values and /or the oscillator mode may be required.

Table 1 shows the considerations that must be taken into account when migrating from the PIC16C620 to the PIC16C620A.

Functional Differences No. Difference H/W S/W Prog. 1 Master Clear Filter changed, PIC16C620A. See Electrical Specification #30 ✓ 2 3V 10MHz Operation supported on the PIC16C620A ✓

TABLE 1:PIC16C620 \rightarrow PIC16C620A DIFFERENCES

Electrical Specification Differences										
Parm. No.	Sym.	Characteristic	PIC16C620 Data Sheet			PIC16C620A Data Sheet			Units	Conditions
			Min	Тур	Мах	Min	Тур	Мах		
D001	Vdd	Supply Voltage	3.0		6.00	3.0		5.5	V	
D010	IDD	Supply Current	_	1.8 9.0	3.3 20	_	1.2 4.0	2.0 7.0	mA mA	Fosc=4MHz, VDD=5.5V, WDT Disabled Fosc=20MHz, VDD=5.5V, WDT Disabled
D020	IPD	Power Down Current		1.0	2.5			2.5	mA	VDD = 4.0V
D023	ΔIWDT	WDT Current		6.0	20 25	_	6.0	10 12	mA mA	VDD=4.0V (125°)
	Δ Ibor	Brown-out Reset Current	—	350	425	—	75	125	mA	BOD enabled, VDD=5.0V
		Comparator Current for each Comparator	_		100	_	30	60	mA	VDD=4.0V
	$\Delta IVREF$	VREF Current		—	300	—	80	135	mA	VDD=4.0V

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- The PICmicro family meets the specifications contained in the Microchip Data Sheet.
- Microchip believes that its family of PICmicro microcontrollers is one of the most secure products of its kind on the market today, when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the PICmicro microcontroller in a manner outside the operating specifications contained in the data sheet. The person doing so may be engaged in theft of intellectual property.
- Microchip is willing to work with the customer who is concerned about the integrity of their code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not mean that we are guaranteeing the product as "unbreakable".
- Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our product.

If you have any further questions about this matter, please contact the local sales office nearest to you.

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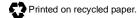
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