



**MICROCHIP**

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## PIC16C620 → PIC16C620A Migration

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### 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:** Even though compatible devices are specified to be tested to the same electrical specification, the characteristics of the devices may be different from each other (due to process difference). For systems that were designed to the device specifications, these process differences should not cause any issues in the application. For systems that did not tightly meet the electrical specifications, the process differences may cause the device to behave differently in the application.

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

**TABLE 1: PIC16C620 → PIC16C620A DIFFERENCES**

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	✓	—	—

Electrical Specification Differences										
Parm. No.	Sym.	Characteristic	PIC16C620 Data Sheet			PIC16C620A Data Sheet			Units	Conditions
			Min	Typ	Max	Min	Typ	Max		
D001	VDD	<b>Supply Voltage</b>	3.0	—	6.00	3.0	—	5.5	V	
D010	IDD	<b>Supply Current</b>	—	1.8	3.3	—	1.2	2.0	mA	FOSC=4MHz, VDD=5.5V, WDT Disabled
			—	9.0	20	—	4.0	7.0	mA	FOSC=20MHz, VDD=5.5V, WDT Disabled
D020	IPD	<b>Power Down Current</b>	—	1.0	2.5	—	—	2.5	mA	VDD = 4.0V
D023	$\Delta I_{WDT}$	<b>WDT Current</b>	—	6.0	20	—	6.0	10	mA	VDD=4.0V
			—	—	25	—	—	12	mA	(125°)
	$\Delta I_{BOR}$	<b>Brown-out Reset Current</b>	—	350	425	—	75	125	mA	BOD enabled, VDD=5.0V
	$\Delta I_{COMP}$	<b>Comparator Current for each Comparator</b>	—	—	100	—	30	60	mA	VDD=4.0V
	$\Delta I_{VREF}$	<b>VREF Current</b>	—	—	300	—	80	135	mA	VDD=4.0V

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**NOTES:**



## WORLDWIDE SALES AND SERVICE

### AMERICAS

#### Corporate Office

Microchip Technology Inc.  
2355 West Chandler Blvd.  
Chandler, AZ 85224-6199  
Tel: 480-786-7200 Fax: 480-786-7277  
Technical Support: 480-786-7627  
Web Address: <http://www.microchip.com>

#### Atlanta

Microchip Technology Inc.  
500 Sugar Mill Road, Suite 200B  
Atlanta, GA 30350  
Tel: 770-640-0034 Fax: 770-640-0307

#### Boston

Microchip Technology Inc.  
5 Mount Royal Avenue  
Marlborough, MA 01752  
Tel: 508-480-9990 Fax: 508-480-8575

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Itasca, IL 60143  
Tel: 630-285-0071 Fax: 630-285-0075

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Microchip Technology Inc.  
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Addison, TX 75248  
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Microchip Technology Inc.  
Two Prestige Place, Suite 150  
Miamisburg, OH 45342  
Tel: 937-291-1654 Fax: 937-291-9175

#### Detroit

Microchip Technology Inc.  
Tri-Atria Office Building  
32255 Northwestern Highway, Suite 190  
Farmington Hills, MI 48334  
Tel: 248-538-2250 Fax: 248-538-2260

#### Los Angeles

Microchip Technology Inc.  
18201 Von Karman, Suite 1090  
Irvine, CA 92612  
Tel: 949-263-1888 Fax: 949-263-1338

#### New York

Microchip Technology Inc.  
150 Motor Parkway, Suite 202  
Hauppauge, NY 11788  
Tel: 631-273-5305 Fax: 631-273-5335

#### San Jose

Microchip Technology Inc.  
2107 North First Street, Suite 590  
San Jose, CA 95131  
Tel: 408-436-7950 Fax: 408-436-7955

### AMERICAS (continued)

#### Toronto

Microchip Technology Inc.  
5925 Airport Road, Suite 200  
Mississauga, Ontario L4V 1W1, Canada  
Tel: 905-405-6279 Fax: 905-405-6253

### ASIA/PACIFIC

#### Hong Kong

Microchip Asia Pacific  
Unit 2101, Tower 2  
Metroplaza  
223 Hing Fong Road  
Kwai Fong, N.T., Hong Kong  
Tel: 852-2-401-1200 Fax: 852-2-401-3431

#### Beijing

Microchip Technology, Beijing  
Unit 915, 6 Chaoyangmen Bei Dajie  
Dong Erhuan Road, Dongcheng District  
New China Hong Kong Manhattan Building  
Beijing 100027 PRC  
Tel: 86-10-85282100 Fax: 86-10-85282104

#### India

Microchip Technology Inc.  
India Liaison Office  
No. 6, Legacy, Convent Road  
Bangalore 560 025, India  
Tel: 91-80-229-0061 Fax: 91-80-229-0062

#### Japan

Microchip Technology Intl. Inc.  
Benex S-1 6F  
3-18-20, Shinyokohama  
Kohoku-Ku, Yokohama-shi  
Kanagawa 222-0033 Japan  
Tel: 81-45-471-6166 Fax: 81-45-471-6122

#### Korea

Microchip Technology Korea  
168-1, Youngbo Bldg. 3 Floor  
Samsung-Dong, Kangnam-Ku  
Seoul, Korea  
Tel: 82-2-554-7200 Fax: 82-2-558-5934

#### Shanghai

Microchip Technology  
RM 406 Shanghai Golden Bridge Bldg.  
2077 Yan'an Road West, Hong Qiao District  
Shanghai, PRC 200335  
Tel: 86-21-6275-5700 Fax: 86 21-6275-5060

### ASIA/PACIFIC (continued)

#### Singapore

Microchip Technology Singapore Pte Ltd.  
200 Middle Road  
#07-02 Prime Centre  
Singapore 188980  
Tel: 65-334-8870 Fax: 65-334-8850

#### Taiwan, R.O.C

Microchip Technology Taiwan  
10F-1C 207  
Tung Hua North Road  
Taipei, Taiwan, ROC  
Tel: 886-2-2717-7175 Fax: 886-2-2545-0139

### EUROPE

#### United Kingdom

Arizona Microchip Technology Ltd.  
505 Eskdale Road  
Winkers Triangle  
Wokingham  
Berkshire, England RG41 5TU  
Tel: 44 118 921 5858 Fax: 44-118 921-5835

#### Denmark

Microchip Technology Denmark ApS  
Regus Business Centre  
Lautrup hof 1-3  
Ballerup DK-2750 Denmark  
Tel: 45 4420 9895 Fax: 45 4420 9910

#### France

Arizona Microchip Technology SARL  
Parc d'Activite du Moulin de Massy  
43 Rue du Saule Trapu  
Batiment A - 1er Etage  
91300 Massy, France  
Tel: 33-1-69-53-63-20 Fax: 33-1-69-30-90-79

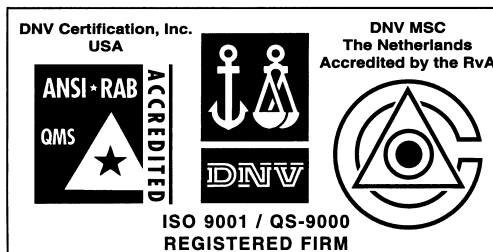
#### Germany

Arizona Microchip Technology GmbH  
Gustav-Heinemann-Ring 125  
D-81739 München, Germany  
Tel: 49-89-627-144 0 Fax: 49-89-627-144-44

#### Italy

Arizona Microchip Technology SRL  
Centro Direzionale Colleoni  
Palazzo Taurus 1 V. Le Colleoni 1  
20041 Agrate Brianza  
Milan, Italy  
Tel: 39-039-65791-1 Fax: 39-039-6899883

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