

$PIC16C622 \rightarrow PIC16C622A \ Migration$

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 PIC16C622 to the PIC16C622A.

Functional Differences No. Difference H/W S/W Prog. 1 Master Clear Filter changed, PIC16C622A. See Electrical Specification #30 ✓ 2 3V 10MHz Operation supported on the PIC16C622A ✓

TABLE 1:PIC16C622 \rightarrow PIC16C622A DIFFERENCES

Electrical Specification Differences										
Parm. No.	Sym.	Characteristic	PIC16C622			PIC16C622A			Units	Conditions
			Min	Тур	Мах	Min	Тур	Мах	Units	Conditions
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	μΑ	VDD = 4.0V
D023	ΔIWDT	WDT Current		6.0	20 25		6.0	10 12	μΑ μΑ	VDD = 4.0V (125°)
	Δ IBOR	Brown-out Reset Current	—	350	425	—	75	125	μA	BOD enabled, VDD = 5.0V
	∆ICOMP	Comparator Current for each Comparator	—	_	100	—	30	60	μA	VDD = 4.0V
	$\Delta I VREF$	VREF Current	—	—	300	—	80	135	μA	VDD = 4.0V

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Note the following details of the code protection feature on PICmicro[®] MCUs.

- 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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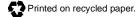
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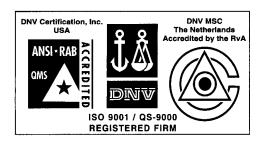
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Corporate Office 2355 West Chandler Blvd. Chandler, AZ 85224-6199 Tel: 480-792-7200 Fax: 480-792-7277 Technical Support: 480-792-7627 Web Address: http://www.microchip.com

Rocky Mountain 2355 West Chandler Blvd. Chandler AZ 85224-6199

Chandler, AZ 85224-6199 Tel: 480-792-7966 Fax: 480-792-7456 Atlanta

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Austin - Analog

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Dallas

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

Los Angeles 18201 Von Karman, Suite 1090 Irvine, CA 92612

Tel: 949-263-1888 Fax: 949-263-1338 New York

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

Toronto 6285 Northam Drive, Suite 108 Mississauga, Ontario L4V 1X5, Canada Tel: 905-673-0699 Fax: 905-673-6509

ASIA/PACIFIC

Australia

Microchip Technology Australia Pty Ltd Suite 22, 41 Rawson Street Epping 2121, NSW Australia

Tel: 61-2-9868-6733 Fax: 61-2-9868-6755 China - Beijing

Microchip Technology Consulting (Shanghai) Co., Ltd., Beijing Liaison Office Unit 915 Bei Hai Wan Tai Bldg. No. 6 Chaoyangmen Beidajie Beijing, 100027, No. China Tel: 86-10-85282100 Fax: 86-10-85282104

China - Chengdu

Microchip Technology Consulting (Shanghai) Co., Ltd., Chengdu Liaison Office Rm. 2401, 24th Floor, Ming Xing Financial Tower No. 88 TIDU Street Chengdu 610016, China Tel: 86-28-6766200 Fax: 86-28-6766599

China - Fuzhou Microchip Technology Consulting (Shanghai) Co., Ltd., Fuzhou Liaison Office Rm. 531, North Building Fujian Foreign Trade Center Hotel 73 Wusi Road Fuzhou 350001, China Tel: 86-591-7557563 Fax: 86-591-7557572

China - Shanghai Microchip Technology Consulting (Shanghai) Co., Ltd. Room 701, Bldg. B Far East International Plaza

No. 317 Xian Xia Road Shanghai, 200051 Tel: 86-21-6275-5700 Fax: 86-21-6275-5060

China - Shenzhen

Microchip Technology Consulting (Shanghai) Co., Ltd., Shenzhen Liaison Office Rm. 1315, 13/F, Shenzhen Kerry Centre, Renminnan Lu Shenzhen 518001, China Tel: 86-755-2350361 Fax: 86-755-2366086 **Hong Kong** Microchip Technology Hongkong Ltd. Unit 901-6, Tower 2, Metroplaza 223 Hing Fong Road Kwai Fong, N.T., Hong Kong Tel: 852-2401-1200 Fax: 852-2401-3431 **India**

Microchip Technology Inc. India Liaison Office Divyasree Chambers 1 Floor, Wing A (A3/A4) No. 11, O'Shaugnessey Road Bangalore, 560 025, India Tel: 91-80-2290061 Fax: 91-80-2290062

Japan

Microchip Technology Japan K.K. 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 135-882 Tel: 82-2-554-7200 Fax: 82-2-558-5934 Singapore Microchip Technology Singapore Pte Ltd. 200 Middle Road #07-02 Prime Centre Singapore, 188980 Tel: 65-334-8870 Fax: 65-334-8850 Taiwan Microchip Technology Taiwan 11F-3, No. 207 Tung Hua North Road Taipei, 105, Taiwan Tel: 886-2-2717-7175 Fax: 886-2-2545-0139

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

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Arizona Microchip Technology SARL Parc d'Activite du Moulin de Massy 43 Rue du Saule Trapu Batiment A - ler 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 Munich, Germany Tel: 49-89-627-144 0 Fax: 49-89-627-144-44 **Germany - Analog** Lochhamer Strasse 13 D 82152 Motiongid Common

D-82152 Martinsried, Germany Tel: 49-89-895650-0 Fax: 49-89-895650-22 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

United Kingdom Arizona Microchip Technology Ltd. 505 Eskdale Road Winnersh Triangle Wokingham Berkshire, England RG41 5TU Tel: 44 118 921 5869 Fax: 44-118 921-5820

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