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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





***High-Performance 8-Bit Microcontrollers***

# **Z8 Encore! XP<sup>®</sup> F1680 Series**

**Product Specification**

PS025015-1212

PRELIMINARY



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# Revision History

Each instance in the Revision History table below reflects a change to this document from its previous version. For more details, click the appropriate links in the table.

Date	Revision Level	Description	Page
Dec 2012	15	Added Timer Clock Source footnote to the TxCTS2 Register.	<a href="#">117</a>
Nov 2012	14	In the Multi-Channel Timer chapter, corrected/clarified instances of the TInA–TInD and TOutA–TOutD to T4CHA–T4CHD GPIO pins to more accurately address their relationship to T <sub>IN</sub> .	<a href="#">120</a>
Oct 2011	13	Revised Flash Sector Protect Register descriptions per CR 13212; revised Packaging chapter.	<a href="#">274</a> , <a href="#">371</a>
May 2011	12	Correction to Trim Bit Address 0001H Register per CR 13091.	<a href="#">283</a>
Oct 2010	11	Comparator 1 Control Register (CMP1) address formerly showed F90H; now corrected to F91H.	<a href="#">258</a>
Sep 2010	10	Removed references to LSBF bit in Master-In/Slave-Out, Master-Out/Slave-In and SPI Master Operation sections.	<a href="#">199</a> , <a href="#">207</a>
Aug 2010	09	Changed the frequency for the Internal Precision RC Oscillator from 1.3842 to 1.3824 in Table 168 per CR 12961.	<a href="#">316</a>
Jun 2008	08	Updated Trim Option Bits at 0005H (TVREF).	<a href="#">287</a>
Mar 2008	07	Updated Operation of the On-Chip Debugger Interface and Ordering Information sections. Added Target OCD Connector Interface.	<a href="#">296</a>

<b>Date</b>	<b>Revision Level</b>	<b>Description</b>	<b>Page</b>
Oct 2007	06	Updated Trim Bit Address Description, Trim Bit Address 0007H, Trim Bit Address 0008H, DC Characteristics, Supply Current Characteristics, VDD Versus Maximum System Clock Frequency, Watchdog Timer Electrical Characteristics and Timing, Analog-to-Digital Converter Electrical Characteristics and Timing, Comparator Electrical Characteristics, Low Power Operational Amplifier Characteristics, IPO Electrical Characteristics and Low Voltage Detect Electrical Characteristics. Added Figure 73.	<a href="#">282</a> , <a href="#">288</a> , <a href="#">288</a> , <a href="#">350</a> , <a href="#">352</a> , <a href="#">356</a> , <a href="#">357</a> , <a href="#">359</a> , <a href="#">360</a> , <a href="#">361</a>
Sep 2007	05	Updated Supply Current Characteristics.	<a href="#">352</a>
Aug 2007	04	Changed description of Z8F16800144ZCOG to Z8 Encore! XP Dual 44-pin F1680 Series Development Kit. Updated electrical characteristics in Table 189, Table 190, Table 192, Table 193, Table 195, Table 196. Removed VBO_Trim section and table.	<a href="#">350</a> , <a href="#">352</a> , <a href="#">358</a> , <a href="#">359</a> , <a href="#">360</a> , <a href="#">374</a>



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