Technical Note

Z8 Encore! XP® Silicon: Versions Summary

TN002603-1107

General Overview

Table 1 summarizes the changes that occurred during the migration of the Z8 Encore! XP® F0822 Series Flash microcontrollers from the AA version to the BA version and of the Z8 Encore! XP® 64K Series Flash microcontrollers from the AA version to the BA version. The date code shown in the table and on each device identifies the version as AA or BA.

Table 1. Z8 Encore! XP® Silicon Versions at a Glance

Z8 Encore! XP® Family	Item	Version	
		AA	**BA**
Z8 Encore! XP® F0822 Series	Date Code	Before 0402	0402 and Later
	WDT RC Oscillator	50 KHz	10 KHz
	RESET, DBG, SMR	Not Filtered	Filtered
	Flash	Page-Level Protection	Page- and Sector-Level Protection
	Reset and Stop Mode Latency	10.28 ms	6.6 ms
	Power	Moderate Power Consumption	Lower Power Consumption
	EMI	Moderate Emissions	Low Emissions
	VBO	VBO Enabled in STOP	Option to Disable VBO in STOP
	UART	No Address Matching	Address Matching for RS-485
	Timer	No Internal Cascading	Internal Cascading
Z8 Encore! XP® 64K Series	Date Code	Before 0344	0344 and after
	WDT RC Oscillator	50 KHz	10 KHz
	RESET, DBG, SMR	Not Filtered	Filtered
	Flash	Page-Level Protection	Page- and Sector-Level Protection
	Reset and Stop Mode Latency	10.28 ms	6.6 ms
	Power	Moderate Power Consumption	Lower Power Consumption
	EMI	Moderate Emissions	Low Emissions
	UART	No Address Matching No DE Signal	Address Matching for RS-485 Added DE Signal
	Timer	No Internal Cascading	Internal Cascading
	I^{2}C	Software can only set START, STOP and NAK bits	Software can set and clear START, STOP and NAK bits

For detailed information about the changes discussed in this technical note, please refer to the following documents:

Z8 Encore! XP® Documentation

Z8 Encore! XP® F0822 Series	Z8 Encore! XP® F0822 Series Flash Microcontrollers Date Code Migration Technical Article (TN0027)
	Errata to Z8 Encore! XP® F0822 Series Flash Microcontrollers Product Specification (UP0058)
	Z8 Encore! XP® F0822 Series Flash Microcontrollers Product Specification (PS0225)
Z8 Encore! XP® 64K Series	Z8F640x to Z8F642x Migration Technical Article (TN0028)
	Errata to Z8 Encore! XP® 64K Series Flash Microcontrollers Product Specification (UP0060)
	Z8 Encore! XP® 64K Series Flash Microcontrollers Product Specification (PS0199)

Part numbers for each of the Z8 Encore! XP® F0822 Series Flash microcontrollers are listed below.

Z8 Encore! XP® F0822 Series Devices

Z8F0822	Z8F0821	Z8F0812	Z8F0811
Z8F0422	Z8F0421	Z8F0412	Z8F0411

Part numbers for each of the Z8 Encore! XP® 64K Series Flash microcontrollers are listed below.

Z8 Encore! XP® 64K Series Devices

Z8F6423	Z8F6422	Z8F6421
Z8F4823	Z8F4822	Z8F4821
	Z8F3222	Z8F3221
	Z8F2422	Z8F2421
	Z8F1622	Z8F1621

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