



SEMICONDUCTOR

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FINAL PRODUCT CHANGE NOTIFICATION

PCN: <PCN Number>

Date: <Date>

Subject: EZ-USB FX1 (CY7C64713*); Enhancement to the current EZ-USB FX (CY7C64613*) and AN21xx product families.

To: <Contact Name>
<Customer>
<Contact Email>

Description of Change:

EZ-USB FX1 (CY7C64713*) is an enhancement to the current EZ-USB FX (CY7C64613*) and AN21xx product families.

For current designs in production, the EZ-USB FX1 is not a drop in replacement. Cypress will release an application note giving design considerations on moving from the EZ-USB FX and AN21xx families to the EZ-USB FX1.

For new designs, the EZ-USB FX1 brings additional flexibility by doubling the embedded memory from 8KB to 16KB. In addition the low power consumption allows for bus powered designs.

All EZ-USB FX1 products will be lead free. EZ-USB FX1 is already in production as of March 1, 2005.

Benefit of Change:

The new EZ-USB FX1 provides higher performance with lower power than the previous generations of Full Speed devices. In addition the new EZ-USB FX1 provides 16KB of on-chip RAM as opposed to the 8KB provided by the EZ-USB and EZ-USB FX families. The EZ-USB FX1 also provides users with 4 configurable endpoints with double, triple and quad buffering options to maximize performance. The EZ-USB FX1 provides users with a faster time to market than previous generations of Cypress Full Speed devices and allows the user to scale easily to the FX2LP and High Speed USB.

Part Numbers Affected:

Affected Parts: 13

Customer Part Numbers Affected:
Affected Parts:

Affected Parts	Description
AN2131QC	80 pin, 24 I/O, full speed USB uC (8k RAM)
AN2131SC	44 pin 16 I/O full speed USB uC (8k RAM)
AN2135SC	44 pin, 8 I/O, full speed USB uC (8k RAM)
AN2136SC	44 pin, 8 I/O, full speed USB uC (8k RAM)
CG5727AS	Customer Specific Part
CG5729AS	Customer Specific Part
CG5731AS	Customer Specific Part
CS5745AT	Customer Specific Part
CS5782AT	Customer Specific Part
CS5784AT	Customer Specific Part
CY7C64613-128NC	128 pin PQFP, EZ-USB FX, 8k RAM
CY7C64613-52NC	52 pin PQFP, EZ-USB FX, 8k RAM
CY7C64613-80NC	80 pin PQFP, EZ-USB FX, 8k RAM

Qualification Status:

All EZ-USB FX1 devices are fully qualified and in production. Please see the datasheet for the EZ-USB FX1 by clicking on the link: [EZ-USB FX1 Datasheet](#)

Sample Status:

Parts available. Please contact your Sales Representative.

Approximate Implementation Date:

Last Time Buy for all parts listed above is November 9th, 2005

Last Time Ship for all parts listed above is May 9th, 2006

Anticipated Impact:

The EZ-USB FX1 is not a drop in replacement for either the EZ-USB FX or the AN21xx families. It is built on a different process technology and incorporates more features. The EZ-USB FX and AN21xx families are no longer recommended for new full speed designs.

Method Of Identification:

All new devices will be marked with CY7C64713* (* denotes the different package configurations, eg: CY7C64713-56LFXC).

Response Required:

<Response Text>

For additional information regarding this change, contact your local sales representative or by email to pcn_adm@cypress.com.

Sincerely,

Richard Oshiro
PCN Process Manager