

ZILOG eZ80Acclaim! Flash Microcontrollers



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ZILOG EZ80F91 FLASH MICROCONTROLLER

Features:

- eZ80 core operating at 50MHz
- On-chip 10/100BaseT Ethernet MAC
- 256KB on-chip Flash memory
- 16KB on-chip SRAM
- Power management features supporting Sleep, Halt, and peripheral power-down controls
- Glueless external bus supporting eZ80, Z80, Intel, and Motorola modes
- 32 GPIO
- IrDA compatible Infrared Encoder/Decoder
- Two independent UARTs with multidrop mode
- SPI and I2C ports
- Four, 16-bit counter/timers with I/O capability
- Watch Dog Timer with selectable clock inputs
- Real-time clock with on-chip 32KHz oscillator
- Full-feature PLL
- JTAG and ZILOG Debug Interfaces
- Interrupt controller supporting internal and external maskable interrupts as well as non-maskable interrupts input
- New DMA-like eZ80 instructions

Description:

The eZ80F91 is the flagship device of the eZ80Acclaim! family of Flash Microcontrollers (MCUs). With 50MHz speed and an on-chip Ethernet MAC, designers now have the necessary performance to execute complex applications quickly and efficiently. Combining 256KB of Flash with 16KB SRAM, the eZ80F91 provides the memory needed to implement communication protocol stacks and achieve the flexibility when performing in-system updates of application firmware. Complementing the high performance, the eZ80F91 offers a rich set of serial communication peripherals to address application designs ranging from consumer electronics and point-of-sale terminals to security systems and industrial control.

MOUSER STOCK NO.		Package	Mem. Flash (bytes)	SRAM (bytes)	Speed (MHz)	Count /timers	Temp. Range	Price Each		
Mfr.	Mfr. Part No.							1	25	100
692	EZ80F91AZ050EG	LQFP-144	256K	16K	50	4	-40-105			

ZILOG EZ80F92 FLASH MICROCONTROLLER

Features:

- eZ80 core operating at 20MHz
- Up to 128KB on-chip Flash memory
- Up to 8KB on-chip SRAM
- Power management features supporting Sleep, Halt, and peripheral power-down controls
- Glueless external bus supporting eZ80, Z80, Intel, and Motorola modes
- Up to 24 GPIO
- IrDA compatible Infrared Encoder/Decoder
- Two independent UARTs with multidrop mode
- SPI and I2C ports
- Six, 16-bit counter/timers with I/O capability
- Watch Dog Timer with selectable clock inputs
- Real-time clock with on-chip 32KHz oscillator
- JTAG and ZILOG Debug Interfaces
- Interrupt controller supporting internal and external maskable interrupts as well as non-maskable interrupts input
- New DMA-like eZ80 instructions

Description:

The eZ80F92 is another of the devices which make up the eZ80Acclaim!™ family of Flash Microcontrollers (MCUs). Combining 20MHz speed, 128KB of Flash, and 8KB SRAM, the eZ80F92 provides the performance and memory needed to implement communication protocol stacks and achieve the flexibility when performing in-system updates of application firmware. Complementing the high performance, the eZ80F92 offers a rich set of serial communication peripherals to address application designs ranging from consumer electronics and point-of-sale terminals to security systems and industrial control. The eZ80F92 is the ROMless equivalent to the eZ80F92/93.

MOUSER STOCK NO.		Package	Mem. Flash (bytes)	SRAM (bytes)	Speed (MHz)	Count /timers	Temp. Range	Price Each		
Mfr.	Mfr. Part No.							1	25	100
692	EZ80F92AZ020SG	LQFP-100	128K	8K	20	6	0 - 70			
692	EZ80F92AZ020EG	LQFP-100	128K	8K	20	6	-40-105			

Development Kit

MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
692	EZ80F920200ZCO	eZ80F92 Development Kit	

ZILOG EZ80F93 FLASH MICROCONTROLLER

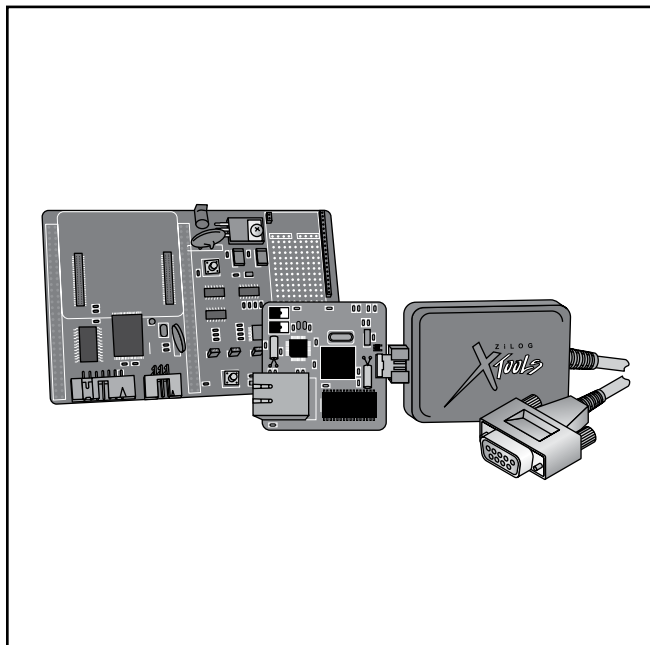
Attention:

- Above features and development kit for eZ80F92Acclaim!™ are applicable to eZ80F93Acclaim!™.

Description:

The eZ80F93 is a new part comprising part of the eZ80Acclaim!™ family of Flash Microcontrollers (MCU's). Combining 20MHz speed, 64KB of Flash, and 4KB SRAM, the eZ80F93 provides the performance and memory needed to implement communication protocol stacks and achieve the flexibility when performing in-system updates of application firmware. Complementing the high performance, the eZ80F93 offers a rich set of serial communication peripherals to address application designs ranging from consumer electronics and point-of-sale terminals to security systems and industrial control.

MOUSER STOCK NO.		Package	Mem. Flash (bytes)	SRAM (bytes)	Speed (MHz)	Count /timers	Temp. Range	Price Each		
Mfr.	Mfr. Part No.							1	25	100
692	EZ80F93AZ020SG	LQFP-100	64K	4K	20	6	0 - 70			
692	EZ80F93AZ020EG	LQFP-100	64K	4K	20	6	-40-105			



Feature:	eZ80F91	eZ80F92	eZ80F93
Maximum Speed	50MHz	20MHz	20MHz
Address/Data Bus Width	24-Bit / 8-Bit	24-Bit / 8-Bit	24-Bit / 8-Bit
Flash / SRAM Memory	256KB / 16KB	128KB / 8KB	64KB / 4KB
Other On-Chip Memory	512 Bytes Configuration Flash	256 Bytes Configuration Flash	256 Bytes Configuration Flash
Access Time / Flash / SRAM	60ns / <20ns	60ns / <20ns	60ns / <20ns
Maximum Addressable Space	16MB Linear	16MB Linear	16MB Linear
External Bus I / F	Yes	Yes	Yes
Chip Selects and Wait- State Generators	4	4	4
EMAC	1 X 10/100Mbps	No	No
UART with HW Handshake	2 (UART0 has IrDA Endec)	2 (UART0 has IrDA Endec)	2 (UART0 has IrDA Endec)
SPI	1	1	1
I2C	1	1	1
Timers	4 X 16-Bit	6 X 16-Bit	6 X 16-Bit
Special Timer Features	Selectable timer clock inputs, 2X external event counter, 2X Tout, 4X PWM, 4X Captures, 4X Compares	2X Tin, 2X Tout	2X Tin, 2X Tout
Real-Time Clock	Yes	Yes	Yes
Watchdog Timer	Yes	Yes	Yes
GPIO	32	24	24
Full Featured PLL	Yes	No	No
JTAG	Yes, Also supports ZDI	Yes, Supports debugging only. Also supports ZDI	Yes, Supports debugging only. Also supports ZDI
Operating Voltage	3.0 - 3.6V	3.0 - 3.6V	3.0 - 3.6V
Package	LQFP - 144	LQFP - 100	LQFP - 100