



ZNEO Z16F Series Development Kit

Development Tools for the 16-Bit ZNEO family of Flash MCUs



FEATURES

- ZNEO™ Z16F Series MCU in 100 pin LQFP package
- Electrical and mechanical compatibility with ZiLOG MDS Architecture
- 1M x 16 of External Flash
- 256K x 16 of External SRAM
- Debug Interface
- Serial Interface (RS232)
- IrDA Interface

ZNEO Z16F SERIES DEVELOPMENT PLATFORM

The development platform includes ZiLOG's Developer Studio II Integrated Development Environment (IDE). You will reduce design time, increase developer productivity, and bring your innovative 16-bit designs to market faster using our complete suite of ZNEO Z16F microcontroller architecture software tools. ZDS II provides an environment that streamlines code compilation and development. Tools include a language-sensitive editor, project manager, assembler, linker, librarian, debugger and a full ANSI C-Compiler! ZiLOG development tools provide a distinct edge over the competition.

OVERVIEW

Move your designs forward with ZiLOG's new ZNEO™ Z16F Series Development Kit!

The ZNEO Z16F series of Flash microcontrollers represents ZiLOG's forward progression into 16-bit processing. The ZNEO Z16F Series Development Kit includes all the software and hardware you need to design your products with ease and reach the marketplace in record time.

Use the ZNEO Z16F Series Development Kits both to evaluate and create your ZNEO Z16F Series MCU product solution. To get a jumpstart on your design, just logon to ZiLOG's website at www.zilog.com. Download information for key product areas, including Motor Control (specifically AC Induction and Brushless DC Motors), and other general-purpose applications. You get everything you need to evolve your concept into an innovative design included in the kit. Discover the value and power ZiLOG brings to your next 16-bit MCU design.



ZNEO Z16F Series Development Kit

ZNEO Z16F Series Development Kit Contents

Hardware

- ZNEO™ Z16F Series Development Board
- USB Smart Cable for PC to ZNEO Z16F Series Development Board
- 5VDC power supply

Software

- ZDS II ZNEO Z16F IDE with ANSI C-Compiler
- Sample code
- Document browser

Documentation/CD-ROM

- Quick Start Guide
- ZNEO Z16F Series technical documentation (on CD-ROM)
 - Development Kit User Manual
 - ZDS II IDE User Manual
 - ZNEO Z16F CPU User Manual
 - Product Brief & Specifications

Up to 128 KB Flash	Up to 4 KB SRAM	12-Channel 10-Bit ADC
12-Bit PWM Module	20MHz ZNEO™ Z16F 16-Bit CPU	Three 16-Bit Timers
Watch-Dog Timer with RC Oscillator		POR/VBO & Reset Control
Operational Amplifier	On-Chip Debugger	Crystal/RC Oscillator
4 Channel DMA Controller	Analog Comparator	Internal Precision Oscillator
ESPI, I ² C, and Two UARTs w/ IrDA & LIN		
Up to 76 General-Purpose I/O Pins		
External Interface		

ZNEO Z16F Simplified Silicon Block Diagram

Silicon Ordering Information

Device	Memory		External Interface	I/O Lines	12-Bit PWM Module (Pairs)	16-Bit Capture/Compare PWM Timers	ADC Channels	UARTs w/LIN & IrDA	I ² C Master-Slave	ESPI	64/68-Pin Packages	80-Pin Package	100-Pin Package
	Flash (KB)	RAM (KB)											
Z16F2811	128	4	Yes	76	3	3	12	2	1	1			X
	128	4	Yes	60	3	3	12	2	1	1		X	
Z16F2810	128	4	No	60	3	3	12	2	1	1		X	
	128	4	No	46	3	3	12	2	1	1	X		
Z16F6411	64	4	Yes	76	3	3	12	2	1	1			X
	64	4	Yes	60	3	3	12	2	1	1		X	
Z16F3211	32	2	Yes	76	3	3	12	2	1	1			X
	32	2	Yes	60	3	3	12	2	1	1		X	

Development Tool Ordering Information

- Z16F2800100ZCOG ZNEO™ Z16F Series Development Kit
 ZUSBSC00100ZACG USB Smart Cable Accessory Kit

Order your ZiLOG Development Kits at <http://www.zilog.com> to get your applications to market in record time.

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