

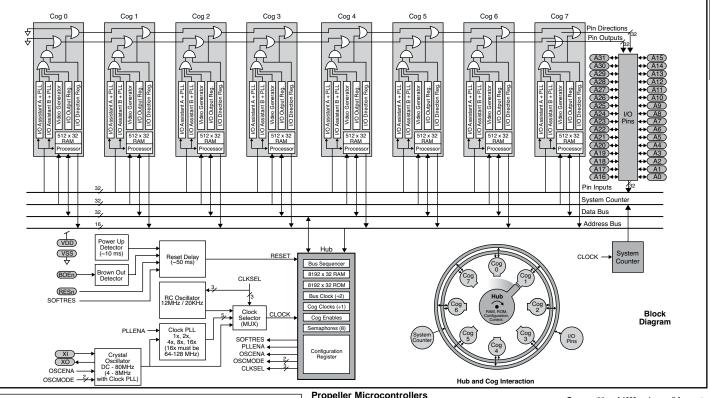
PARALLAX 32 Bit and 8 Bit Microcontrollers PARALLAX 3

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PROPELLER

32 BIT PROPELLER MULTICORE MICROCONTROLLERS What can you do with eight 32-bit processors (COGs) in one chip? Real simultaneous multi-processing! The new Propeller chip is the result of our internal design team working for eight years. The Propeller chip was designed at the transistor level by schematic using our own Altera Stratix tools to prototype the product. The Propeller is programmed in both a high-level language, called SpinTM, and low-level (assembly) language. With the set of pre-built Parallax "objects" for video, mice, keyboards, RF, LCDs, stepper motors and sensors your Propeller application is a matter of high-level integration. The Propeller is recommended for those with previous microcontroller experience.



Propeller Specifications				
Model Number	P8X32A			
Package Types	40-pin DIP, 44-pin LQFP, 44-pin QFN			
Parallax Stock Codes	P8X32A-D40 - DIP package			
	P8X32A-Q44 - LQFP package			
	P8X32A-M44 - QFN package			
Power Requirements	3.3 volts DC			
External Clock Speed	DC to 80 MHz			
·	(4 MHz to 8 MHz with Clock PLL running)			
Internal RC Oscillator	12 MHz or 20 KHz			
System Clock Speed	DC to 80 MHz			
Global RAM/ROM	64 K bytes; 32K RAM / 32K ROM			
RAM/ROM Organization	32 bits (4 bytes or 1 long)			
I/O Pins	32			
Current Source/Sink per I/O	50 mA			

Topeller Microcontrollers				For qua	ntities of 100)0 and up, ca	all for quote
MOUSER	Parallax	Package	Size (mm)	Price Each			
STOCK NO.	Part No.			1	10	25	100
619-P8X32A-D40	P8X32A-D40	40 Pin DIP	51 x 12.3				
619-P8X32A-M44	P8X32A-M44	44 Pin QFN	9 x 9				l
610-D8Y33A-O44	D8X33V-U44	44 Din LOED	10 v 10		1	l l	i l

Propeller Development Tools / Kits

MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-32300	32300	Propeller Starter Kit	
619-32100	32100	Propeller Demo Board	
619-32311	32311	Propeller Access. Kit - PS/2 Keyboard/Mouse & 2.5" LCD Display	
619-122-32000	122-32000	Propeller Manual	

Propeller Starter Kit

The Propeller Starter Kit includes everything you need to get started with the Propeller microcontroller. including the Propeller Demo Board, the Propeller Manual, software on CD and a USB cable. The Propeller Demo Board includes a built-in Propeller (P8X32A-Q44), EEPROM and 5 MHz crystal pre-wired to connectors for interfacing to devices such as a mouse, keyboard, TV or VGA monitor and speakers. This is all configured for immediate use by many objects from the Propeller Object Exchange (included with the Propeller Tool software). In just a few minutes you can see some of the impressive tasks the Propeller can perform.



619-32300 32300 Propeller Stater Kit	MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
	619-32300	32300	Propeller Stater Kit	

Propeller Education Kit -PropStick USB Version

This kit features the PropStick USB, with built-in Propeller chip, EEPROM, regulator, crystal and programming connections so your project can get up and running with minimal wiring time. The Propeller Education Kit – 40-Pin DIP Version is also available



MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-32306	32306	Propeller Education Kit – PropStick USB Version	

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HYDRA Game Development Kit

Develop games, graphics and media applications with the Propeller Powered HYDRA Game Console. For beginner to intermediate coders, you need only basic programming experience in any BASIC or C-like language. All of the experience in any SASC of C-infle aniguage. In or the hardware and software you need is included (as shown in pictures), along with the comprehensive book on game programming for the Propeller in Spin and assembly language - 'Game Programming for the Propeller Powered HYDRA'. Within the book, the HYDRA hardware is covered in detail with schematics, descriptions, and tips allowing you to take full advantage of its resources, including its expansion port and game card. Note: Printed book is black and white

Kit comes complete with HYDRA unit, book, 128K Memory card, Blank Experimenter card, mouse, keyboard, gamepad, video and USB cables, power supply, CD and more!



MOUSER	Parallax	Description	Price
STOCK NO.	Part No.		Each
619-32360	32360	HYDRA Game Development Kit	

Propeller Professional Development Board

The Propeller Professional Development Board (PPDB) is a high-quality, fully-integrated development platform for the Propeller microcontroller. A wide variety of typical I/O (LEDs, Buttons, etc.) devices and circuitry are built into the PPDB, providing the developer with an ideal platform for rapid Propeller project development.



MOUSER	Parallax	Description	Price
STOCK NO.	Part No.		Each
619-32111	32111	Propeller Professional Development Board	

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