



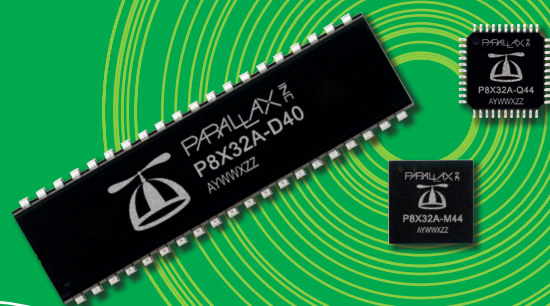
What can you do with eight 32-bit processors (COGs) in one chip? Real simultaneous multi-processing! The new Propeller chip is the result of our internal design team working for eight years.

The Propeller chip was designed at the transistor level by schematic using our own Altera Stratix tools to prototype the design. The Propeller is programmed in both a high-level language called Spin™, and low-level Propeller Assembly language. With an ever-expanding 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 Chips

Propeller represents the first custom all-silicon product designed by Parallax. For pricing and availability please contact our Sales Department at 888-512-1024 (Monday - Friday, 7 a.m. - 5 p.m., Pacific Time; toll-free in the U.S.).

Propeller Chip	Stock Code	# Pins	Package
P8X32A-D40 Chip	#P8X32A-D40	40	DIP
P8X32A-Q44 Chip	#P8X32A-Q44	44	LQFP (10 x 10 mm)
P8X32A-M44 Chip	#P8X32A-M44	44	QFN (10 x 10 mm)

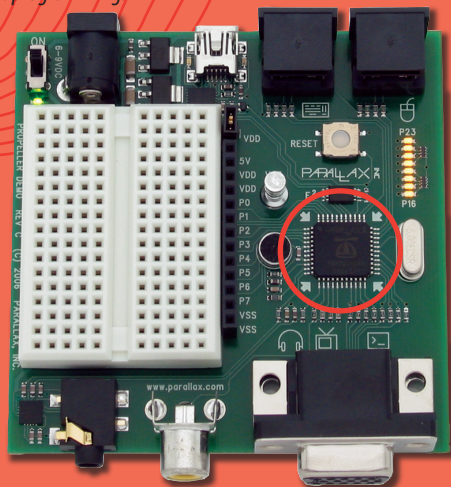


Propeller Chip Specifications

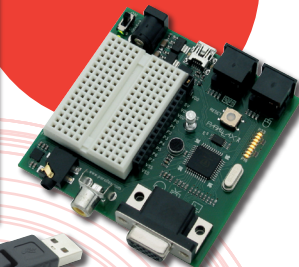
Power Requirements	500 μ A/MIPS @ 3.3 volts DC
External Clock Speed	DC to 80 MHz (4 MHz to 8 MHz with clock PLL running)
Internal RC Oscillator	12 MHz or 20 KHz
System Clock Speed	DC to 80 MHz
COGs	8
Performance	20 MIPS per COG @ 80 MHz
Global RAM/ROM	32 KB RAM / 32 KB ROM
Processor RAM	512 x 32 per COG
I/O Pins	32
Current Source/Sink per I/O	30 mA

Product	Stock Code
Propeller Demo Board (with power supply)	#32100
Propeller Demo Board (no power supply)	#32101

The Propeller Demo Board, Rev C, visibly demonstrates the Propeller's varied capabilities in a compact and fun platform. You can use it to learn Propeller programming and then develop full-blown applications which generate video and sound, and utilize mice and keyboards (see Propeller Accessories Kit on the following page). All the requisite power supply and USB loading circuitry is provided for you. Eight unused I/O pins are available for experimentation. Kit includes Propeller Demo Board, and a USB A to Mini B Cable. *Note: A Propeller P8X32A-Q44 chip is mounted to the board. All you need to do is plug it in to start programming.*



The most comprehensive way to get started with the Propeller chip.



Product	Stock Code
Propeller Starter Kit	#32300

The Propeller Starter Kit contains the Propeller Manual, Propeller Demo Board, and a USB A to Mini B Retractable Cable. Everything you need to program a Propeller chip except for the PC and power supply. Parallax recommends a 7.5V 1 Amp Power Supply (sold separately; #750-00009).

Product	Stock Code
Propeller Accessories Kit	#32311

The perfect addition to your Propeller Starter Kit. This kit contains a 2.5" LCD A/V Display, Parallax PS/2 Mini-Keyboard, and a Parallax PS/2 Optical Mouse; everything you need to see the Propeller chips' capabilities in action.

The 2.5" LCD A/V Display is equipped with a high resolution color TFT LCD. This product is portable and you can bring it anywhere easily. Great for displaying NTSC video from the Propeller Chip or any other device which has an Audio/Video Out connector.

The Parallax PS/2 Mini-Keyboard is a fully functional Windows keyboard providing a compact solution for keyboard entry with the Propeller Chip. This keyboard can also be used on our SX Microcontroller and BASIC Stamp (with appropriate serial encoder chip). Dimensions are 11.81 x 5.91 inches (30 x 15 cm).

The Parallax PS/2 Optical Mouse is a compact, low-profile, optical mouse with three buttons and a scroll wheel. It's small size and PS/2 connection make it a great input device for the Propeller Chip. This mouse can also be used on our SX Microcontroller and BASIC Stamp (with appropriate serial encoder chip).

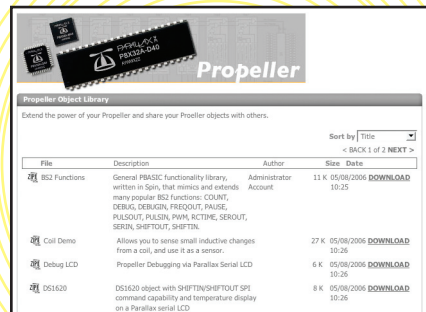


Components of the Accessories Kit are also sold separately.

Product	Stock Code
2.5" LCD A/V Display	#603-32000
Parallax PS/2 Mini Keyboard	#32351
Parallax PS/2 Optical Mouse	#32350

Propeller Object Library

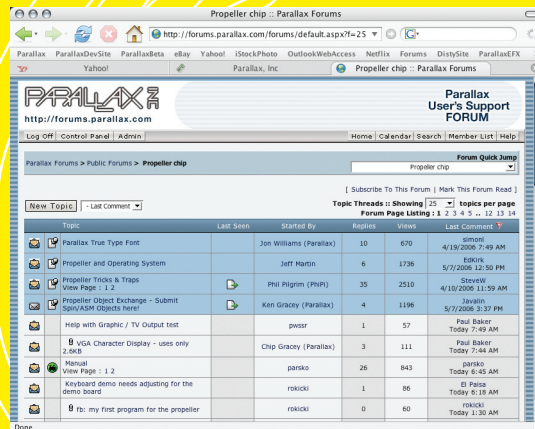
The key to using a Propeller and having fun is the availability of Objects. Objects provide structure and code reusability. They can be created by one developer and shared with others for use in their projects with or without modification. An Object consists of Spin code and optional Propeller Assembly code. If you've got the right objects, using Propeller is a matter of high-level integration. We invite you to share your Objects in our new Propeller Object Exchange.



To submit object to the Propeller Object Library users must abide by these rules:

1. Files have no copyright. This is an open exchange among users.
2. No financial payment from Parallax.
3. Parallax will not test your objects.

The Propeller Object Exchange is a user-managed, database-driven area where you can upload and download your objects. In time, this tool will allow searching and sorting (by name, developer's name, keywords, ease of use, user rating, category, etc.).



Propeller Discussion Forum

Check out our Propeller Discussion Forum; accessible from www.parallax.com via the Support » Discussion Forums menu. This is an on-line discussion group especially for Propeller users where you can post your questions or review previous discussions that may have already answered yours. The Propeller Discussion Forum welcomes Propeller users ranging from beginner to expert and even includes some Parallax staff members.



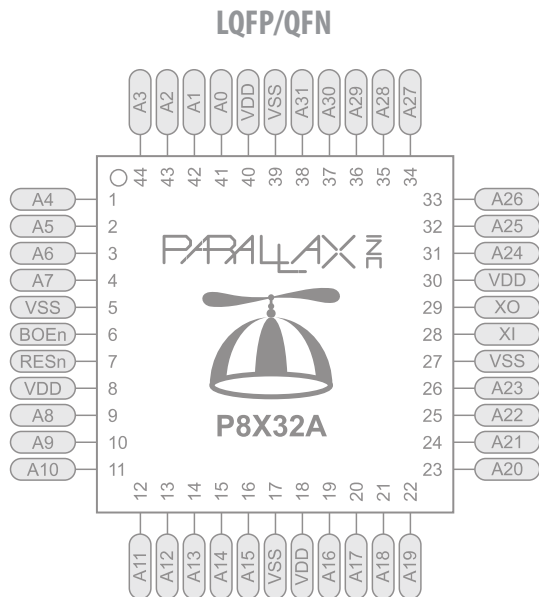
Parallax, Inc.

599 Menlo Drive, #100

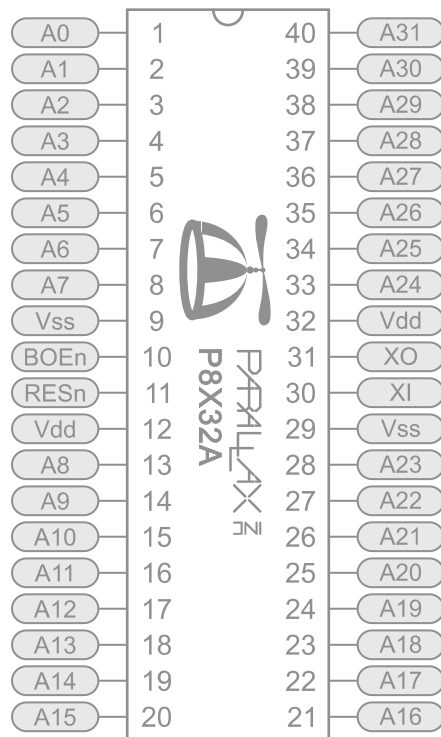
Rocklin, CA 95765

USA

www.parallax.com/propeller



DIP



Propeller, Spin, and Parallax are trademarks of Parallax, Inc.

BASIC Stamp is a registered trademark of Parallax, Inc.

Note: Product description, typographic, pricing, and photographic errors are unintentional and subject to change.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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