

MicroMint 80C52-Basic Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Mfr. Part No.	Description	1	10	100
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter ..	\$33.95	\$31.95	\$29.95

KAE Servo Controller

*Web Code: YBC

Controller operates from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

146472: PIC-SERVO Motion Control Chipset for DC Motors

- For DC motors with digital encoders
- 32-bit position, velocity and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chipset (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Mfr. Part No.	Package	1	10	50
146472	KAE-TOV4-DPS	DIP-28/18, 0.3"	\$35.95	\$32.95	\$30.95
323934	KAE-TOV10-DP	DIP-28, 0.3"	29.95	26.95	24.95

*Ethernet Controllers Available Online — Enter Web Code LAE

KAE Smart Serial Adapter

Serial Converter/Stand Alone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host w/ either the simple sequencer chip or a PIC 18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2

Part No.	Mfr. Part No.	Description	Price
1586120	KAE-SSA45-BDV1	Smart serial adapter	\$99.95

PARALLAX ̸ Propeller Microprocessor Chip

The Propeller module is a multi-processing chip, with shared memory and a built-in interpreter for programming in a high-level object-oriented language, called Spin™, and low-level (assembly) language.

Complete specifications & photos on page 187 or online

Part No.	Mfr. Part No.	Pkg.	1	10
2007134	P8X32A-D40	DIP-40	\$12.95	\$11.95
2007142	P8X32A-M44	QFN-44	12.95	12.35
2007151	P8X32A-Q44	LQFP-44	12.95	11.95

PARALLAX ̸ BASIC Stamp 2P Modules

In addition to the BS2-SX (above) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Voltage requirements: 5-12VDC
- Current draw @ 5V: 40mA run; 400µA sleep
- Scratch pad RAM: 128 bytes

Part No.	Mfr. Part No.	Pkg.	No. of I/O Pins	1	10
184911	BS2P24-IC	24-pin	16 + 2 serial	\$78.95	\$70.95
184920	BS2P40-IC	40-pin	32 + 2 serial	88.95	79.95

Tiny Logic® Series

* Order in multiples of 10

Part No.	Mfr. Part No.	Pkg.	Description	10	100
873830	NC7SU04M5X	SOT-23/5	Single unbuffered inverter	\$.07	\$.05
873725	NC7S08P5X	SC-70/5	Single 2-input AND gate .....	.09	.05
874138	NC7SZ125M5X	SOT-23/5	Buffer w/ 3-st. output .....	.09	.05

* ALL = Allegro | MAX = Maxim Semi | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | ♦ Manufacturer Varies

PARALLAX ̸ BASIC Stamp

See page 37 for Serial LCD Modules

Ideal for controller applications including robotics, radio-controlled interfaces of a digital camera, and much more. The BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices.

- Current draw @ 5V: 8mA run/100µA
- Volts required: 5-15VDC
- 24-pin DIP
- Microcontroller: PIC16C57
- Program speed: 4000/sec.
- Size: 1.2"L x 0.6"W

Includes: Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Part No.	Mfr. Part No.	Pkg.	1	10
130892	BS2-IC	24-pin	\$48.95	\$43.95

PARALLAX ̸ 50MHz BASIC Stamp 2SX Module

- Program execution speed: 10,000 instructions/sec.

- Current draw @ 5V: 60mA run; 200µA sleep
- Volts required: 5-12 VDC
- RAM size: 32 bytes

- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC

Part No.	Mfr. Part No.	Pkg.	No. of I/O Pins	1	10
159775	BS2SX-IC	24-pin	16 + 2 serial	\$58.95	\$52.95

See page 187 & 188 for Parallax Chips, Boards & Kits

Interface Series

*Web Code: RBU

Part No.	*Mfr.	Cross Ref.	Pkg.	Description	1	10
242077	♦	TC428CPA	DIP-8	4.5-18V, dual MOSFET driver	\$.99	\$.89
832448	♦	DS26LS32ACM/NOPB	SOIC-16	Quad differential line receiver .....	.89	.55
1291647	MCH	TC4420CPA	DIP-8	6A high speed MOSFET driver	1.29	1.09
314691	♦	ICL7136CPL	DIP-40	15V, 3 1/2 digit LCD driver	2.95	1.75
313437	♦	ICM7218AIJ	DIP-28	5V, 8 digit LCD driver	6.95	6.25
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	8.49	6.95
313322	♦	ICM7228AIP	DIP-28	5V, 8 digit LCD driver	3.95	3.55
50884	♦	SN75154N	DIP-16	5-12V, quad line receiver .....	.39	.35
277940	♦	SN75179BP	DIP-8	5V, diff line driver/receiver .....	.99	.89
277974	♦	SN75183N	DIP-14	5V, dual diff line driver	1.95	1.75
51027	♦	SN75451AN	DIP-8	7V, dual peripheral AND driver .....	.59	.49
51131	♦	SN75492P	DIP-14	5V, HEX digit driver	4.95	4.49
699780	♦	PCA82C250N	DIP-8	Can controller interface, I-temp. ....	.99	.85

*Interface Controllers Available Online — Enter Web Code HAS



Digital Interface

*Web Code: WBB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	50
323977	EDEFT639/P	DIP-8	Servo controller	\$6.95	\$6.25	—
171951	EDE702	DIP-18	Serial LCD interface	7.19	6.75	6.25
321710	EDE707	DIP-28	Octal 7-segment LED display decoder ..	7.19	6.75	6.25
171969	EDE1144	DIP-18	Keypad encoder	5.19	4.95	4.75
141532	EDE1200	DIP-18	Unipolar stepper motor controller	6.39	5.95	5.35
157526	EDE1204	DIP-18	Bipolar stepper motor controller	6.39	5.95	5.35
321736	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan ..	4.19	4.09	3.95
321761	EDE2208/P	DIP-18	8-pushbutton momentary to toggle	4.19	4.09	3.95

Motor/Display Drivers

*Web Code: DAD

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	10	100
25216	ON	MC3479P	DIP-16	7.2-16.5V, stepper motor driver ..	\$3.25	\$2.95	\$2.59
1762681	ALL	UDN2981A-T	DIP-18	8-channel source driver	1.79	1.59	1.39
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver	2.75	2.49	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver	2.25	1.89	1.39
901010	NSC	LM3914N-1/NOPB	DIP-18	25V, dot/bar display driver	2.35	1.95	1.45
246625	NSC	LM3914V	PLCC-20	25V, dot/bar display driver	2.49	2.25	1.95
24256	NSC	LM3915N	DIP-18	25V, dot/bar display driver	2.75	2.49	2.25
901061	NSC	LM3915N-1	DIP-18	3dB/step, 30db range dot/bar disp. dvr	2.55	2.05	1.55
24272	NSC	LM3916N	DIP-18	3-25V, dot/bar display driver	2.75	2.49	2.25
901108	NSC	LM3916N-1	DIP-18	25V, dot/bar display driver	2.45	1.95	1.35
792440	ON	MC14489BPE	DIP-20	Multi character LED display/lamp dvr.	4.25	3.49	3.25
241824	MOT	MC14489BP	DIP-20	5V, 7-segment LED display driver ..	3.95	3.25	2.95