

# Microcontrollers, PAL/GALs, BASIC Stamps & Servo Controllers



Semiconductors

## DALLAS Dallas Semiconductors

★ Web Code: QDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
114198	DS1210	DIP-8	NV controller chip	\$4.25	\$3.59	\$3.19
114219	DS1213C	DIP-28	Smart socket	24.95	22.95	19.95
133410	DS1216C*	DIP-28	Smart watch/RAM	19.95	17.95	16.95
114331	DS1232LP	DIP-8	Micromonitor chip	3.95	3.59	2.95
697231	DS1243Y-120+	DIP-28	64k NV SRAM w/ phantom clock	19.95	18.95	17.95
176778	DS1302	DIP-8	Trickle charge time keeping	3.25	2.95	2.49
1194679	DS1307+	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	2.95	2.49	1.95
1194695	DS1307N+	DIP-8	5V, 64 x 8 serial I2C real time clock, I-temp	3.49	3.19	2.75
114382	DS1620	DIP-8	Digital thermometer and thermostat	5.95	5.59	5.25
865936	DS18B20+	TO-92	Prog. resolution 1-wire digital thermometer	2.75	2.59	2.49
133452	DS12887	DIP-24	Real time clock chip	8.95	7.95	6.95

★ Pull = Extra Savings

★ CPLDs and FPGAs — Enter Web Code SAZ

## Voice Chip

### Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 28-pin DIP
- Typical 100k record cycles, 1µA standby current and 100 year message retention



Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	\$5.95	\$5.49	\$5.25

## Microcontrollers

★ Web Code: PAV

Part No.	Mfr.	Mfr. Part No.	Pkg.	Description	1	10	100
145040	MCH	PIC12C508A-04/P	DIP-8	512 OTP, 4MHz, 5 I/O	\$ .99	\$ .89	\$ .85
144258	MCH	PIC12C509A-04/P	DIP-8	1k OTP, 4MHz, 5 I/O	1.95	1.75	1.49
223790	MCH	PIC12F629-I/P	DIP-8	1k flash, 20MHz, 6 I/O	.99	.89	.85
223781	MCH	PIC12F675-I/P	DIP-8	1k flash, 20MHz, 6 I/O	.99	.89	.85
312514	MCH	PIC12F683-I/P	DIP-8	2k flash, 20MHz, 6 I/O	1.19	1.15	1.09
145111	MCH	PIC16F84A-04/P	DIP-18	1k flash, 4MHz, 13 I/O	3.69	3.49	3.29
193332	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O	3.95	3.75	3.49
312733	MCH	PIC16F88-I/P	DIP-18	4k flash, 20MHz, 16 I/O	2.75	2.55	2.49
247142	MCH	PIC16F648A-I/P	DIP-18	4k flash, 20MHz, 16 I/O	2.29	1.95	1.79
312590	MCH	PIC16F684-I/P	DIP-14	2k flash, 20MHz, 12 I/O	1.39	1.29	1.19
312611	MCH	PIC16F688-I/P	DIP-14	4k flash, 20MHz, 12 I/O	1.45	1.39	1.35
2127523	MCH	PIC16F690-I/P	DIP-20	7k flash, 20MHz, 18 I/O	1.95	1.79	1.59
246975	MCH	PIC16F873A-I/SP	DIP-28	4k flash, 20MHz, 22 I/O	4.35	4.19	3.95
193367	MCH	PIC16F876-20/SP	DIP-28	8k flash, 20MHz, 22 I/O	5.95	5.39	5.19
247011	MCH	PIC16F876A-I/SP	DIP-28	8k flash, 20MHz, 22 I/O	4.95	4.49	4.25
176882	MCH	PIC16F877-20/P	DIP-40	8k flash, 20MHz, 22 I/O	6.25	5.75	5.45
247038	MCH	PIC16F877A-I/P	DIP-40	8k flash, 20MHz, 33 I/O	4.95	4.75	4.49
2127531	MCH	PIC16F886-I/P	DIP-28	14k flash, 20MHz, 25 I/O	2.19	1.95	1.89
2127540	MCH	PIC16F887-I/P	DIP-40	14k flash, 20MHz, 35 I/O	2.29	2.15	2.09
248031	MCH	PIC18F452-I/P	DIP-40	32k flash, 40MHz, 34 I/O	6.25	5.95	5.69
2177651	MCH	PIC18F2550-I/SP	DIP-28	32k flash, 48MHz, 24 I/O	4.95	4.49	4.25
323133	ATM	ATMEGA16-16PU	DIP-40	6k flash, 16MHz, 32 I/O	4.49	4.25	3.95
2151267	ATM	ATTINY45-20PU	DIP-8	4k flash, 20MHz, 6 I/O	1.95	1.75	1.49
2151312	ATM	ATTINY85-20PU	DIP-8	8k flash, 20MHz, 6 I/O	1.95	1.75	1.49
204089	ATM	AT89C4051-24PU	DIP-20	4k flash, 24MHz, 15 I/O	2.75	2.49	2.25
168903	ATM	AT89C51-24PC	DIP-40	4k flash, 24MHz, 32 I/O	4.95	4.49	3.95
168920	ATM	AT89C52-24PC	DIP-40	8k flash, 24MHz, 32 I/O	4.95	4.49	3.95
662637	ATM	AT89S52-24PC	DIP-40	8k flash, 24MHz, 32 I/O	3.95	3.49	3.25
2139111	ATM	ATMEGA328P-PU	DIP-28	32k flash, 8-bit, 20MHz	2.95	2.59	2.29
2129334	ATM	A000048	DIP-28	32k flash, 8-bit, ATmega328	4.49	4.39	4.25

## Buffer

★ Web Code: WBR

Part No.	Product No.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer	\$9.95	\$8.95	\$7.95

★ Digital Interface — Enter Web Code WBB

## PALs & GALs

★ Web Code: YAD

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
88399	◆	GAL16V8-10*	DIP-20	10ns 64 x 32 AND array	\$2.75	\$2.49
37452	◆	GAL16V8-15*	DIP-20	15ns 64 x 32 AND array	2.25	1.95
37461	◆	GAL16V8-25*	DIP-20	25ns 64 x 32 AND array	2.95	2.59
876539	LAT	GAL16V8D-25LP	DIP-20	25ns 64 x 32 AND array	2.95	2.59
38658	◆	GAL20V8-15**	DIP-24	15ns 64 x 40 AND array	2.49	2.25
39159	◆	GAL22V10-15	DIP-24	15ns 132 x 44 AND array	3.95	3.59
39167	◆	GAL22V10-25	DIP-24	25ns 132 x 44 AND array	2.95	2.75

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## Interface Series

★ Web Code: RBU

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
1291647	MCH	TC4420CPA	DIP-8	6A high speed MOSFET driver	\$1.95	\$1.49
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	7.95	6.95
241875	◆	FAN8082	DIP-8	18V, bi-directional DC motor driver	.79	.69
51131	◆	SN75492P	DIP-14	5V, HEX digit driver	3.95	3.49

## PARALLAX Propeller Microprocessor Chip

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.



Part No.	Mfr. Part No.	Package	1	10
2007134	P8X32A-D40	DIP-40	\$7.95	\$7.19

## USB-to-Serial Prop Plug for Propeller & BASIC Stamp

Provides a USB-to-serial port connection for microcontroller programming and communication. USB cable included.



Part No.	Mfr. Part No.	Description	1	5
2109421	32201	Up to 3Mbps, 3.3V & 5V compatible, 4-pin header	\$16.95	\$15.95

## PARALLAX BASIC Stamp Module

★ Web Code: BSM

Part No.	Mfr. Part No.	Package	Speed	No. of I/O Pins	1	5
130892	BS2-IC	24-pin	20MHz	16 + 2	\$44.95	\$40.95

## Stepper Motor Drivers/Controllers

★ Web Code: GDP

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
288067	ST	L297/1	DIP-20	Stepper motor controller, 5V	\$7.95	\$6.95	\$6.25
245403	ST	L298N	MW-15	Dual full-bridge driver, 46V	3.75	3.49	2.95
2179016	ALL	A3958SB	DIP-24	DMOS full-bridge PWM driver, 50V	.29	.25	.15
288104	ST	L6203	MW-11	DMOS full-bridge driver, 48V	7.95	6.95	5.95

## Motor/Display Drivers

★ Web Code: DAD

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
1762681	ALL	UDN2981A-T	DIP-18	8-channel source driver	\$3.95	\$3.59	\$3.29
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver	2.95	2.59	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver	2.75	2.49	1.95
901061	NSC	LM3915N-1	DIP-18	3dB/step, 30dB range dot/bar disp. dvr	3.95	3.59	3.29

## KAE Servo Controllers

★ Web Code: YBC

### PIC-SERVO SC Servo Motion Control I.C.

Part No.	Mfr. Part No.	Package	1	5	25
323934	KAE-TOV10-DP	DIP-28, 0.3"	\$29.95	\$28.49	\$26.95
2134432	KAE-TOV10-SO	SOIC-28, 0.3"	29.95	28.49	26.95

\* ALL = Allegro | ATM = Atmel Semi | LAT = Lattice Semi | MAX = Maxim Semi | MCH = Microchip | NSC = National Semi | ST = ST Micro | ◆ Major Brands