

ST6 GENERAL PURPOSE CONTROL 8-BIT

The ST62 family is optimized for low to midrange 8-bit embedded control applications which are often subject to two conflicting requirements: obtaining both high noise immunity and low overall system cost. With a rich selection of peripherals and memory sizes including data EEPROM, the ST62 family is available in packages ranging from 16 to 100 pins, making it easy to find the product that matches the cost target. The ST62 family is based on a standard 8-bit CPU core, surrounded by a powerful range of peripherals. The ST62 family offers all the major functions needed for embedded control: RC oscillator, 32KHz internal oscillator, safe power-on, high-current buffers for directly driving LEDs and TRIACs (with zero-crossing detection directly from the mains), safety oscillator, 8-bit ADC, data EEPROM, LCD driver, SPI, UART, Auto-Reload Timer... Each device offers a different mix of peripherals, so you can pick the one with only those features required by your application and you only pay for the hardware you really need.

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Package Type	Features & Characteristics								Price Each		
Mfr.	Mfr. Part Number		Prog. Mem.	Memory Type	RAM	E2PROM	A/D inputs	Timers	I/Os (HI-Curr)	Special Features	1	10	100
Surface Mount													
511	—ST62T20CM6	SO-20	4K	OTP EPROM	64	----	8x8-Bit	1x8-Bit	12 (4)	RC oscillator, OSG, ROP	5.57	4.51	3.61
511	—ST62T65CM6	SO-28	-	OTP EPROM	64	----	8x8-Bit	1x8-Bit	12 (4)	RC oscillator, OSG, ROP	6.72	5.62	4.76
511	—ST62T10CM6	SO-20	-	OTP EPROM	64	----	8x8-Bit	1x8-Bit	12 (4)	RC oscillator, OSG, ROP	3.54	2.94	2.40
Thru Hole													
511	—ST62T62CB6	DIP-16	2K	OTP EPROM	128	64	4x8-Bit	1x8-Bit	9 (5)	RC oscillator, OSG, ART, ROP, IC/OC	2.36	2.32	2.02
511	—ST62T65CB6	DIP-28	2K	OTP EPROM	128	128	13x8-Bit	1x8-Bit	21 (8)	RC oscillator, OSG, ART, ROP, IC/OC	5.05	4.75	4.01
511	—ST62T25CB6	DIP-28	4K	OTP EPROM	64	----	16x8-Bit	1x8-Bit	20 (4)	RC oscillator, OSG, ROP	6.06	4.90	3.94
511	—ST62T60CB6	DIP-20	4K	OTP EPROM	128	128	7x8-Bit	1x8-Bit	13 (6)	RC oscillator, OSG, ART, ROP, IC/OC	5.30	5.05	4.30

ST10 GENERAL PURPOSE CONTROL 16-BIT

The ST10 family provides pin-compatible alternatives with enhanced Flash memory. Since its introduction, ST has sold more than hundred million chips with the ST10 core. With the DSP-MAC, STMicroelectronics leverages this success, adding cutting-edge DSP possibilities to its ST10 advanced 16-bit MCU. Building on ST's experience in embedded cores, the ST10 architecture is based on an analysis of the real needs of system designers and software engineers in some of the fastest-moving segments of the industry, where high-performance, real-time capabilities and low-power consumption are essential.

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Package Type	Features & Characteristics						Price Each			
Mfr.	Mfr. Part Number		Memory Type	RAM	Supply Voltage	A/D inputs	Timers	I/Os (HI-Curr)	Special Features	1	10	100
511	—ST10F26922Q3	PQFP 144	256	12	5.5	16x10-Bit	8x16-Bit	111	USART, SSC, 2xCANs	36.07	30.80	27.16
511	—ST10F27625Q3	PQFP 144	512	68	5.5	24x10-Bit	5x16-Bit	111	I2C, 2xUART, 2xSSC, 2xCAN	38.17	34.95	28.98
511	—ST10R167-Q3	PQFP 144	16	4	5.5	16x10-Bit	5x16-Bit	111	25MHz, ROMless, PEC, PWM, CAPCOM, EMI	26.63	23.16	17.85

ST7 INDUSTRY STANDARD FAST CORE ARCHITECTURE

The ST7 core is based on an industry standard 8-bit architecture, extended by STMicroelectronics to improve support for high level language programming and to provide additional interrupt handling features. The accumulator-based core has six internal registers including a 16-bit program counter. The instruction set has 63 instructions with 17 addressing modes offering 8x8-bit unsigned multiply, true bit manipulation, various bit/byte transfer modes and powerful branching logic. Peripheral resources are handled via dedicated interrupts and registers.

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Package Type	Features & Characteristics								Price Each		
Mfr.	Mfr. Part Number		Prog. Mem.	Memory Type	RAM	A/D inputs	Timers	Serial Interface	I/Os (HI-Curr)	Special Features	1	10	100
Surface Mount													
511	—STR7F321AR6T6	TQFP-64	32K	Flash	128	16x10-Bit	2x16-Bit, 1x8-Bit	SPI/SCI/I2C/48	(16)	WDG, RTC, ICP, IAP, nested interrupts, TLI, ROP, beep	7.91	7.02	5.70
511	—STR7F1FV2T6	TQFP-100	32K	Flash	256	12x10-Bit	15x16-Bit	SPI/I2C	72 (0)	WDG, RTC, 3xSPI, 2xI2C, 4C, 4xUART, 3xCAN	17.95	14.96	11.45
511	—STR7F264G2M6	SO-28	8K	Flash	256	6x10 Bit	2x16 Bit	SPI	22 (8)	ROP, ICP, IAP, PLL, Nested Interrupts	5.52	4.92	4.23

ARM™ CORE SERIES 16-BIT & 32-BIT

Invest in a microcontroller that can grow to meet expanding performance requirements and allows you to reuse your software and hardware investment. The ARM™ series is ideal for embedded applications requiring a compact yet powerful MCU, or versatile scalable solutions such as user interfaces, factory automation systems and point-of-sale applications. Built on leading ARM™ architecture, these series makes you extremely responsive to emerging requirements, enabling you to implement changes rapidly at low cost.

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Package Type	Features & Characteristics								Price Each		
Mfr.	Mfr. Part Number		Prog. Mem.	RAM	A/D inputs	Timers	Serial Interface	I/Os (HI-Curr)	Special Features	1	10	100	
Surface Mount													
511	—STR7F34X-SK/RAIS	TQFP-144	256+16K	64K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	48 (8)	WDG, RTC, EMI, CAN, USB	15.90	14.96	12.33	
511	—STR7F1FR1T6	TQFP-64	128+16K	32K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	30 (0)	WDG, RTC, USB	11.40	10.55	7.94	
511	—STR7F1FR2T6	TQFP-64	256+16K	64K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	30 (0)	WDG, RTC, USB	13.95	12.89	9.76	
511	—STR7F2FR2T6	TQFP-64	256+16K	64K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	32 (0)	WDG, RTC, CAN	12.76	12.00	9.75	
511	—STR910FAW32X6	TQFP 128	256+32k	64K	4x16-Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	80	CAN, UART, IrDA, I2C, SSP	13.23	11.02	8.44	
511	—STR910FAM32X6	TQFP 80	256+32k	64K	4x16-Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	40	CAN, UART, IrDA, I2C, SSP	12.45	10.37	7.94	
511	—STR911FAM44X6	TQFP 80	512+32k	96K	4x16-Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	40	USB, CAN, UART, IrDA, I2C, SSP	14.94	12.46	9.53	
511	—STR911FAM42X6	TQFP 80	256+32k	96K	4x16-Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	40	USB, CAN, UART, IrDA, I2C, SSP	13.38	11.15	8.54	
511	—STR912FAW44X6	TQFP 128	512+32k	96K	4x16-Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	80	USB, CAN, UART, IrDA, I2C, SSP, Ethernet	13.32	13.01	9.94	
511	—STR912FAW42X6	TQFP 128	256+32k	96K	4x16-Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	80	USB, CAN, UART, IrDA, I2C, SSP, Ethernet	14.63	12.20	9.33	
511	—STR911FAW42X6	LQFP 128	256+32k	96K	4x16 Bit	4 (16-bit)	2xSPI/2xI2C/3xUART/JTAG	40	USB, CAN, UART, IrDA, I2C, SSP	13.85	11.54	8.84	

ST7 FLASH STICK (ST IN-CIRCUIT COMMUNICATION KIT); 8-BIT

The ST in-circuit communications kit (STICK) is an ideal introduction to the world of ST7 flash microcontrollers. It is a complete kit for programming the flash ST7 microcontroller. The STICK acts as a communications interface between your PC and the ST7 flash microcontroller soldered on your application board. It can program ST7 flash devices powered with any voltage within their datasheet specified range.

MOUSER STOCK NO.		Supported Devices	Price Each
Mfr.	Mfr. Part Number		1
511	—STX-RLINK	ST7LITE Series, ST7226x Series, ST7232x Series, ST72252x Series, ST7256x Series	61.10

ST LOW COST STARTER KITS; 32-BIT

These starter kits are complete solutions for starting application development and evaluating STMicroelectronics families of microcontrollers. They come with all the hardware and software you need to start developing applications for the STR7x, ST7LITE, and ARM series microcontrollers. These kits come complete with evaluation board, targeted microcontroller, the ULink USB-to-JTAG in-circuit debugger/programmer and integrated development environment for complete solutions on designing the ultimate application development.

511	—ST7F34X-SK/RAIS	REva Raisonance starter kit supporting ST7LITE, ST723x, and ST72263 MCU's.	149.00
511	—STR750-SK/RAIS	Reva Starter Kit supporting Raisonance's ARM7TDMI™ and ARM966E™ core-based MCU's.	198.75
511	—STR750-SK/HIT	Hitec Starter Kit for ST ARM® (STR91XSK/HIT, STR750-SK/HIT, STR730-SK/HIT, STR710-SK/HIT) complete development solution.	198.75
511	—STR91X-SK/KEI	Keil Starter Kit For STM32, STR9, and STR7 Arm Core-based families of microcontrollers.	245.00
511	—STR91X-SK/HIT	Hitec Starter Kit with STR912 evaluation board, USB-JTAG in-circuit debugger, 16kb code-size.	245.00
511	—STR9-COMSTICK	Complete low-cost kit for evaluation and development of STR91XF networked embedded applications.	63.70