

ST63 MICROCONTROLLER FAMILY - CMOS, 8 BIT MCU

This family of CMOS single chip microcontrollers is specially tailored to application specific environment. Thanks to its advanced technology this 8 bit MCU family is well suited for analog and digital processing with economy and performance.

All ST6 devices are based on a building block approach. A common core is surrounded by a combination of dedicated on-chip peripherals, e.g.: A/D Converters, Timers, Watchdog, LCD drivers, Operational amplifiers, PLL, D/A, LED driver, IR pre-processors, OSD Generators, Voltage Synthesis etc. **The 62 series are designed for general purpose, industrial control, consumer and automotive applications. The ST63 series is especially designed for TV, SVR (Satellite Video Receiver) and Monitor applications.** Different ROM/RAM sizes, from 8K to 20K ROM are available together with EPROM and OTP versions. Devices with data EEPROM on-chip are also available. The instruction set is designed for byte-efficient program storage and includes bit manipulation and conditional jump instructions.

ST63 SERIES

Devices	Program Memory	RAM x 8	EEPROM	Package	Timers	I/O Ports	D/A Outputs
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ST631xx Family for TV and Satellite Video Receiver

ST63126BB1/XX	8K ROM	256	128	PDIP40	2x8 Bit + WD	11	4 x 6 Bit
ST63156BB1/XX	8K ROM	256	128	PDIP40	2x8 Bit + WD	12	4 x 6 Bit
ST63E156D1/XX	8K EPROM	256	128	CDIP40W	2x8 Bit + WD	12	Up to 4 x 6 Bit
ST63T156B1/XX	8K OTP	256	128	PDIP40	2x8 Bit + WD	12	Up to 4 x 6 Bit

ST636/7/8x Family for TV and Satellite Video Receiver

ST6365BB1/XX	8K ROM	256	384	PSDIP42	2x8 Bit + WD	22	4 x 6 Bit
ST6375BB1/XX	14K ROM	256	384	PSDIP42	2x8 Bit + WD	22	4 x 6 Bit
ST6385BB1/XX	20K ROM	256	384	PSDIP42	2x8 Bit + WD	22	4 x 6 Bit
ST63E85D1	20K EPROM	256	384	CSDIP42W	2x8 Bit + WD	22	4 x 6 Bit
ST63T85B1/XX	20K OTP	256	384	PSDIP42	2x8 Bit + WD	22	4 x 6 Bit
ST6367BB1/XX	8K ROM	256	384	PSDIP42	2x8 Bit + WD	20	6 x 6 Bit
ST6377BB1/XX	14K ROM	256	384	PSDIP42	2x8 Bit + WD	20	6 x 6 Bit
ST6387BB1/XX	20K ROM	256	384	PSDIP42	2x8 Bit + WD	20	6 x 6 Bit
ST63E87D1	20K EPROM	256	384	CSDIP42W	2x8 Bit + WD	20	6 x 6 Bit
ST63T87B1/XX	20K OTP	256	384	PSDIP42	2x8 Bit + WD	20	6 x 6 Bit

ST63 Family for Monitor

ST6369BB1/XX	8K ROM	256	384	PDIP40	2x8 Bit + WD	21	6x6 Bit + 1x14 Bit
ST63E69D1/XX	8K EPROM	256	384	CDIP40W	2x8 Bit + WD	21	6x6 Bit + 1x14 Bit
ST63T69B1	8K OTP	256	384	PDIP40	2x8 Bit + WD	21	6x6 Bit + 1x14 Bit
ST6371J1B1/XXX	8K ROM	256	192 + 128 (DDC)	PSDIP42	2x8 Bit + WD	20	9x7 Bit + 1x14 Bit
ST6371J2B1/XXX	8K ROM	256	384 + 128 (DDC)	PSDIP42	2x8 Bit + WD	20	9x7 Bit + 1x14 Bit
ST6371J3B1/XXX	12K ROM	256	384 + 128 (DDC)	PSDIP42	2x8 Bit + WD	20	9x7 Bit + 1x14 Bit
ST6371J5B1/XXX	16K ROM	256	384 + 128 (DDC)	PSDIP42	2x8 Bit + WD	20	9x7 Bit + 1x14 Bit
ST63E71J5D1/XXX	16K EPROM	256	384 + 128 (DDC)	CSDIP42W	2x8 Bit + WD	20	9x7 Bit + 1x14 Bit
ST63T71J5B1/XXX	16K OTP	256	384 + 128 (DDC)	PSDIP42	2x8 Bit + WD	20	9x7 Bit + 1x14 Bit

Note: Standard features include 5V+/-10% operating voltage, 6,5µs typical instruction time, 8 MHz maximum Frequency, one SPI and one Watchdog.
All TV and SVR devices with 128 characters in two OSD Backs.
xxx: Customer ROM Code Number.

ST92 MICROCONTROLLER TV FAMILY - HCMOS 8/16-BIT MCU

A BROAD RANGE OF INTEGRATED PRODUCTS FOR THE CONSUMER SEGMENT

With ST92, SGS-THOMSON MICROELECTRONICS supports TV applications development with a complete range of integrated solutions that meet global market requirements from Low to High-End Chassis...

Built in functions, also suitable for Monitor, Satellite Receiver and VCR applications include On Screen Display, Data Slicer, Voltage Synthesis, and Infra Red Signal input handling.

The large memory space allows the inclusion of software for Close Caption, Teletext, and Scart/Peritel socket market management.

A standard video chassis developed by SGS-THOMSON supports evaluation and demonstration, and can form the basis of an original design with vastly reduced time to market.

ST92 SERIES

Device *	Program Memory	RAM x 8 + REG	Package	Timers	I/O Ports	A/D Inputs	D/A Outputs
ST9291J7B1	48K ROM	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST9291J6B1	32K ROM	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST9291J4B1	24K ROM	384 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST9291J2B1	16K ROM	384 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST9291N7B1	48K ROM	640 + 224	PSDIP56	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST9291N6B1	32K ROM	640 + 224	PSDIP56	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST9291N5B1	24K ROM	640 + 224	PSDIP56	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST92E91J7D1	48K EPROM	640 + 224	CSDIP42-W	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST92E91J6D1	32K EPROM	640 + 224	CSDIP42-W	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST92E91N6D1	32K EPROM	640 + 224	CSDIP56-W	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST92E91N7D1	48K EPROM	640 + 224	CSDIP56-W	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST92T91J7B1	48K OTP	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST92T91J6B1	32K OTP	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit + 1x14 Bit
ST92T91N6B1	32K OTP	640 + 224	PSDIP56	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST92T91N7B1	48K OTP	640 + 224	PSDIP56	1x16 Bit + WD + SLT	42	3x6 Bit	8x8 Bit + 1x14 Bit
ST9293J7B1	48K ROM	768 + 224	PSDIP42	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST9293J5B1	32K ROM	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST9293J9B1	63K ROM	768 + 224	PSDIP42	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST92E93J7F1	48K EPROM	768 + 224	CSDIP42-W	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST92E93J9F1	63K EPROM	768 + 224	CSDIP42-W	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST92T93J7B1	48K OTP	768 + 224	PSDIP42	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST92T93J9B1	63K OTP	768 + 224	PSDIP42	1x16 Bit + WD + SLT	31	4x6 Bit	None
ST9294J5B1	24K	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit
ST9294J4B1	24K	384 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit
ST9294J3B1	16K	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit
ST9294J2B1	16K	384 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit
ST92E94J5D1	24K EPROM	640 + 224	CSDIP42-W	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit
ST92T94J5D1	24K OTP	640 + 224	PSDIP42	1x16 Bit + WD + SLT	31	3x6 Bit	8x8 Bit
ST92E96N9D1▲	63K EPROM	2048 + 224	CSDIP56-W	1x16 Bit + WD + SLT	39	3x6 Bit	8x8 Bit

Note : * Standard features include 5V+/-10% operating voltage, 0.5µs typical instruction time, 12 MHz maximum Frequency, OSD (On-Screen-Display), ADC functions and SPI.

▲ Under Development.

DEDICATED MICROCONTROLLERS



ST92 MICROCONTROLLER TV FAMILY - HCMOS 8/16-BIT MCU (cont'd)

ST92 FAMILY DEVELOPMENT TOOLS

Device	Starter Kit	Emulator	EPROM Programmer	GANG Programmer	Other
ST9291	None	ST9291-EMU ST9291-DBE	ST92E9X-EPB/110 ST92E9X-EPB/220	ST92E94-GP/DIP42 ST93E94-GP/DIP56	'C' Compiler ST9-SWC/PC
ST9293	None	ST9293-EMU ST9293-DBE		ST92E93-GP/DIP42	
ST9294	None	ST9294-EMU ST9294-DBE		ST92E94-GP/DIP42	
ST9296 ▲	None	ST9296-EMU	ST92E96-EPB/110 ST92E96-EPB/220	None	

▲ Product under development