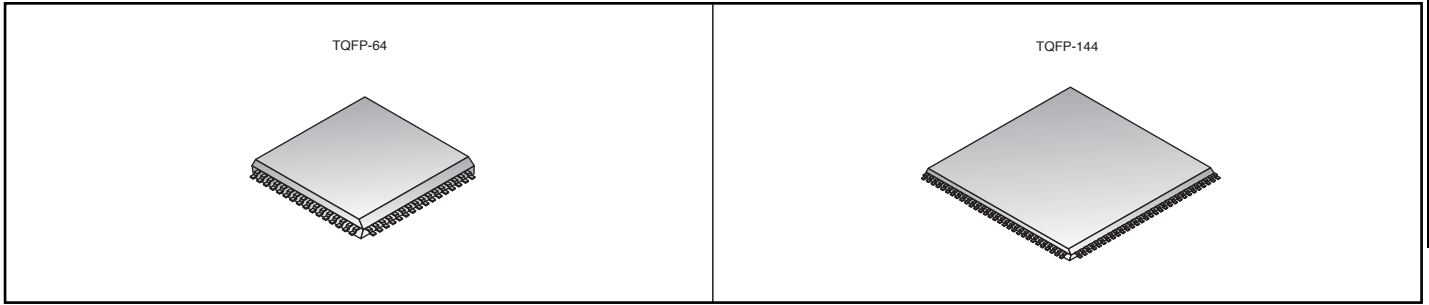


STMICROELECTRONICS Current 16 / 32-Bit Microcontrollers STMicroelectronics



STR710F SERIES ARM™ CORE 16/32-BIT

Invest in a microcontroller that can grow to meet expanding performance requirements and allows you to reuse your software and hardware investment. The STR710F 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, the STR710F series makes you extremely responsive to emerging requirements, enabling you to implement changes rapidly at low cost.

Key Benefits:

- Shortens your development cycle and adapts easily to your customers' expectations
- Best-in-class Flash random access times:
 - up to 48MHz with 0 wait states (with acceleration)
 - up to 30MHz with 0 wait states (without acceleration) with no penalty from context switches and branches.
 - This allows deterministic and optimum behavior ideal for real time applications
- Small, low pin-count TQFP64 package
- TQFP144 package with external memory bus

Key Features:

- Industry standard ARM7TDMI RISC 16/32 bit CPU
- 128K / 256K embedded Flash
- 16 /64K high-speed SRAM
- Versatile package options
- Up to 10 communication interfaces including CAN, USB, HDLC, MMC and smartcard interface
- Four low power modes
- Extensive application development tools including a low-cost kit based on the popular ARM RealView® Developer Suite.

Abbreviations:

- CAN = Controller area network
- EMI = External memory interface
- HDLC = High level data link controller
- I2C = Inter-integrated circuit
- RTC Real time clock
- SC = Smart card
- SCI = Serial communications interface
- SPI = Serial peripheral interface
- UART = Universal asynchronous receiver transmitter
- USB = Universal serial bus
- WDG = Watch dog timer

For quantities of 100 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	
Surface Mount											
511—	STR710FZ1T6	TQFP-144	128+16K	Flash	32K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	48 (8)	WDG, RTC, EMI, CAN, USB	14.50
511—	STR710FZ2T6	TQFP-144	256+16K	Flash	64K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	48 (8)	WDG, RTC, EMI, CAN, USB	16.10
511—	STR711FR1T6	TQFP-64	128+16K	Flash	32K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	30 (0)	WDG, RTC, USB	11.50
511—	STR711FR2T6	TQFP-64	256+16K	Flash	64K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	30 (0)	WDG, RTC, USB	13.10
511—	STR712FR1T6	TQFP-64	128+16K	Flash	32K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	32 (0)	WDG, RTC, CAN	12.60
511—	STR712FR2T6	TQFP-64	256+16K	Flash	64K	4x12-Bit	5 (5/8/3)	2xSPI/2xI2C/4xUART/HDLC/SC	32 (0)	WDG, RTC, CAN	15.40

ST7 ARM LOW COST STARTER KIT

Kit includes:

- **KickStart™ Development Board**
 - 20-pin JTAG interface connector
 - 5V power supply from JLink-KS USB connection furnished via JTAG connection (no external power supply required)
 - Optional external 5-9V power supply
 - Two LEDs
 - External oscillator
 - Two push buttons
 - Reset button
 - RS232 drivers
 - Two UART DB9 connectors
 - Two SPI ports
 - Two I2C ports
 - Potentiometer connected to ADC
 - CAN connector (STR712-SK/IAR)
 - STR712FR2 microcontroller (STR712-SK/IAR)
 - USB connector (STR711-SK/IAR)
 - STR711FR2 microcontroller (STR711-SK/IAR)
- **JLink-KS:**
 - Supplies 5V from USB connection via pin 19 of the JTAG connector (no additional power supply required)
 - Download speed up to 50KB/sec
 - Maximum JTAG speed 8MHz
 - Auto speed recognition
 - 20-pin standard JTAG connector
 - USB and 20-pin flat cable included
 - Supported platforms:
 - Microsoft® Windows® 2000 and XP
- **Software CD with:**
 - IAR Embedded Workbench®
 - KickStart 32KB C/C++ compiler
 - C-SPV™ debugger
 - Complete integration with JLink-KS
 - Editor, linker and librarian tools
 - Built-in Flash programming visualSTATE®
 - Powerful code generator creates C/C++ that is absolutely consistent with the system design
 - Advanced verification and validation tools
 - 20-state version included
 - Automatic generation of design documentation

The starter kits are complete, cost effective solutions for starting application development and evaluating STMicroelectronics' ARM™-core based microcontrollers. They come with all the hardware and software developers need to start developing applications for STR711F and STR712F devices, including the KickStart Development Board with STR71xF microcontroller, the IAR JLink-KS USB-to-JTAG debugger and IAR Embedded Workbench® integrated development environment with 32KB KickStart version of the C/C++ compiler, built in Flash loader and sample projects covering all STR71xF peripherals.

MOUSER STOCK NO.		Supported Devices	Price Each
Mfr.	Mfr. Part Number		
511—	STR711-SK/IAR	STR711FR1T6 and STR711FR2T6	299.00
511—	STR712-SK/IAR	STR712FR1T6 and STR712FR2T6	299.00

STR7 ARM™ EVALUATION BOARD

The STR710-EVAL board is a complete development platform for the STR71x series. The STR710-EVAL board is a cost effective, flexible and open design to demonstrate the capability of the STR71x series of flash micro-controllers and to enable rapid evaluation of the STR71x devices and available peripherals. It includes the high performance STR710FZ2T6 ARM7TDMI device that boasts 256 Kbytes embedded flash with best-in-class random access time, 64 Kbytes on-chip high speed SRAM as well as up to 10 serial communication interfaces, including USB and CAN.

Main Components

- STR710F processor running at 48 MHz
- EMI SRAM 4 Mbytes (2Mx16)
- EMI flash 4 Mbytes (2Mx16)
- SPI serial flash
- I2C EEPROM
- LCD display

Features:

- Support for the following interfaces:
 - USB
 - CAN
 - RS232
- LED displays
- Buzzer
- Test Buttons
- JTAG connector

MOUSER STOCK NO.		Supported Devices	Price Each
Mfr.	Mfr. Part Number		
511—	STR710-EVAL	STR71x series of flash microcontrollers	595.00