2008 9



22007 6 ST 32K~128K

Cortex-M3

STM32

200

16,000





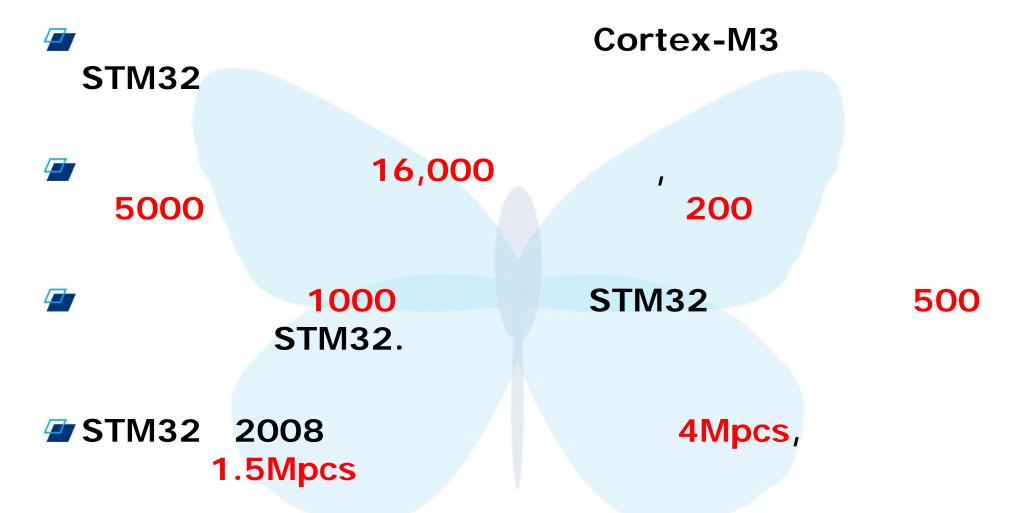


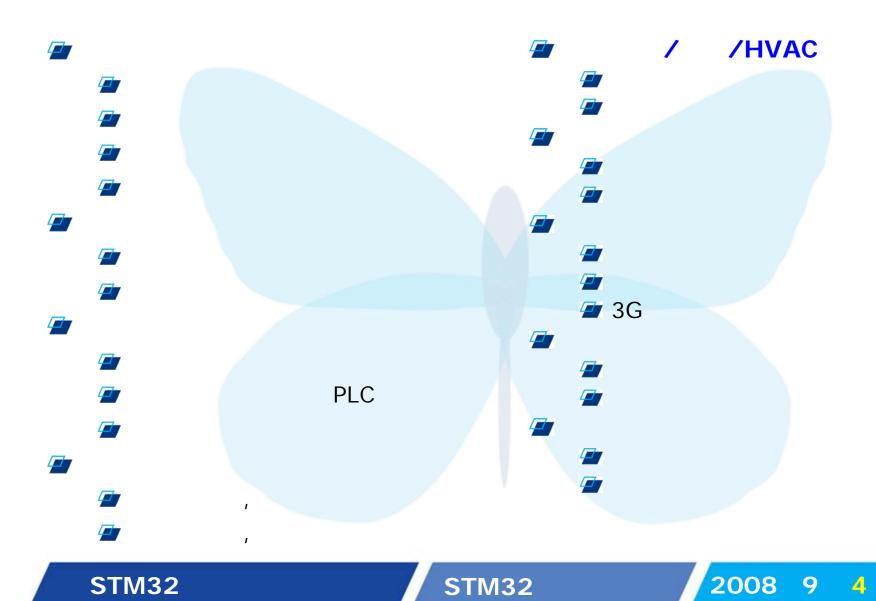
1000 STM32





STM32

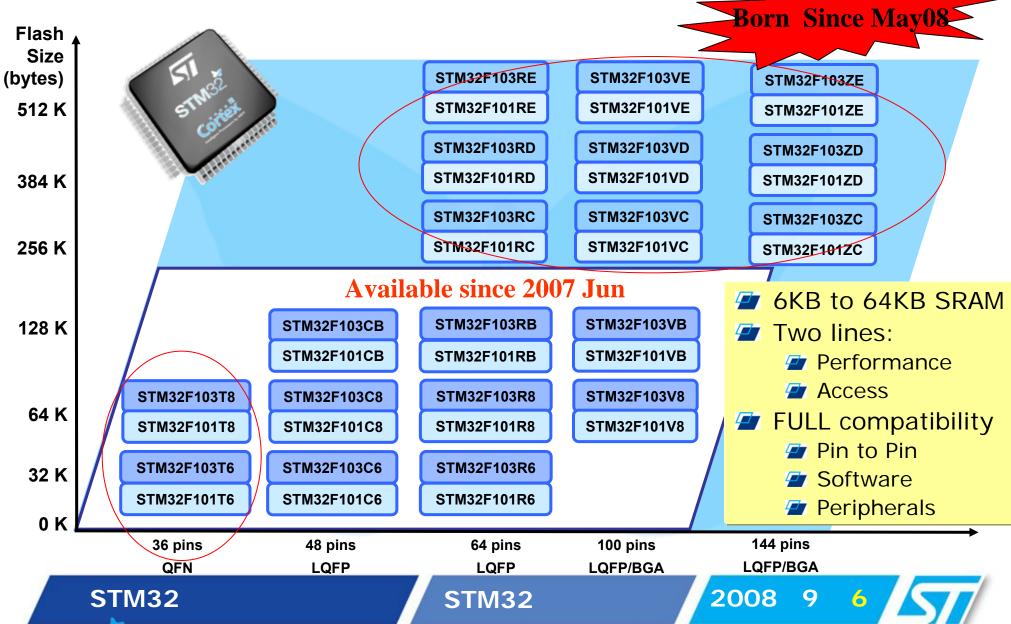




STM32 Releasing your creativity

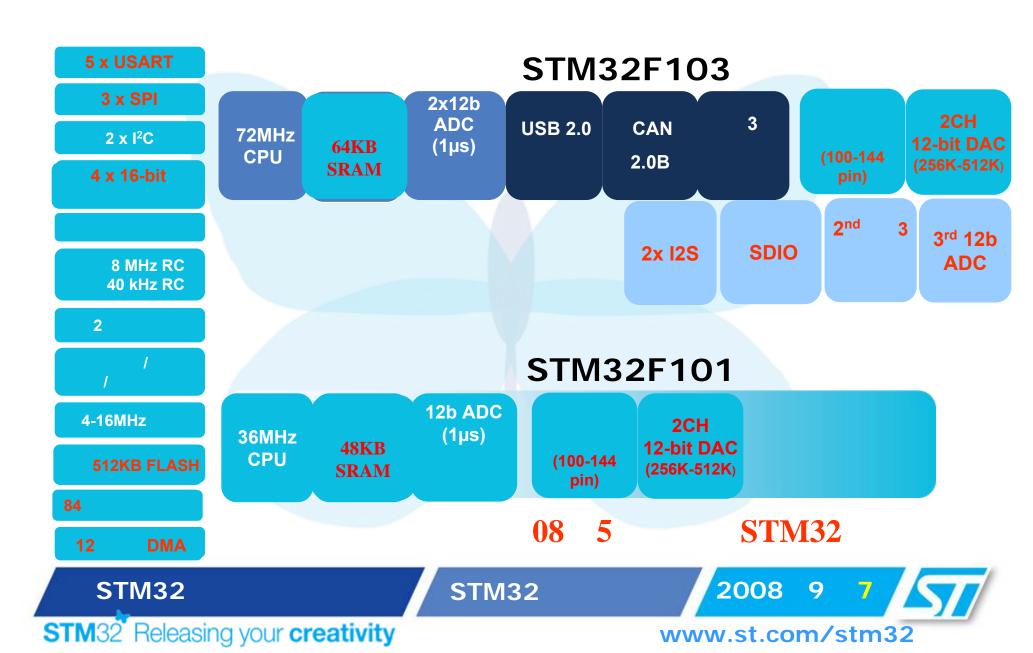


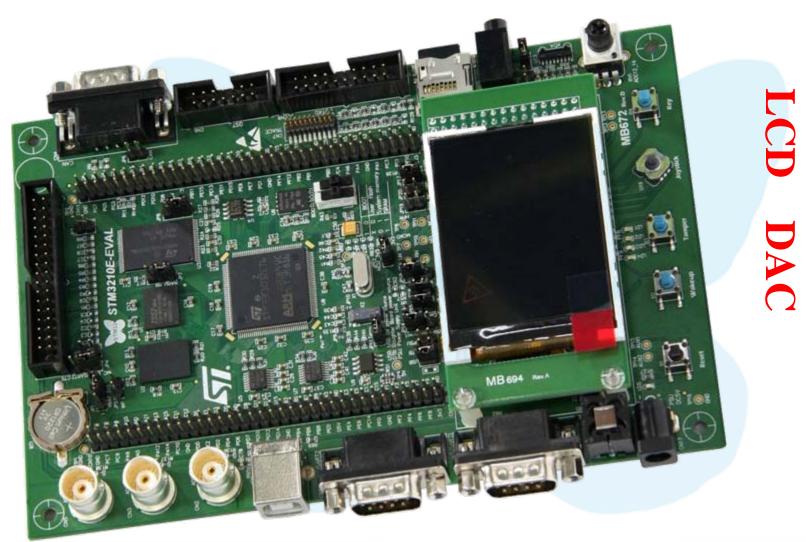
STM32 Releasing your creativity



STM32 Releasing your creativity

STM32: 2





STM32

SDIO

STM32

STM32

2008

9



ST 32 MCU

2007 6

STM32

32

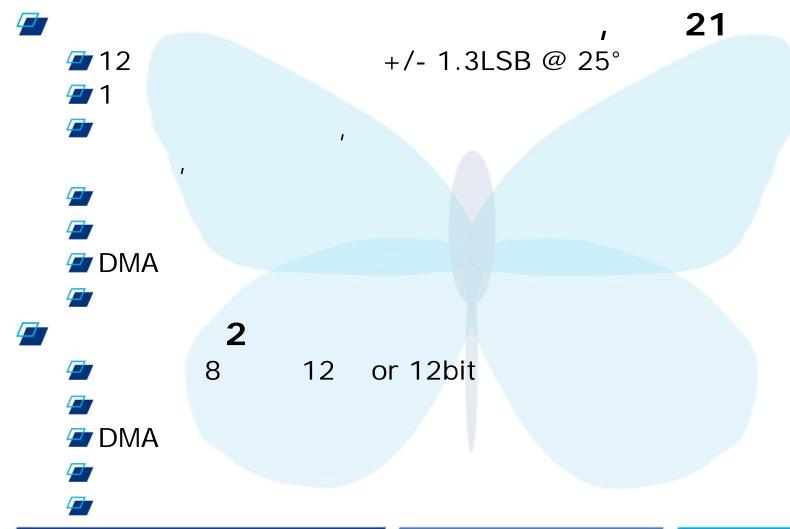
ST





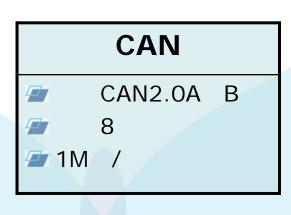


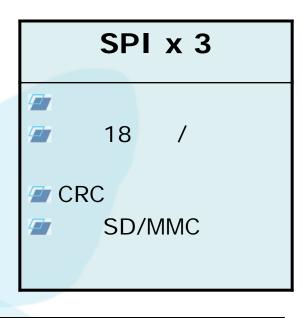
```
DELTA (
             STM32
Garmin (
 STM32
Danfoss (
   STM32
BG Tech (
                STM32
XXX
       STM32
```



2008 9 11







12S x 2



16 32

8kHz~48kHz

256

USB

USB2.0

8

USB-IF

4.5M /

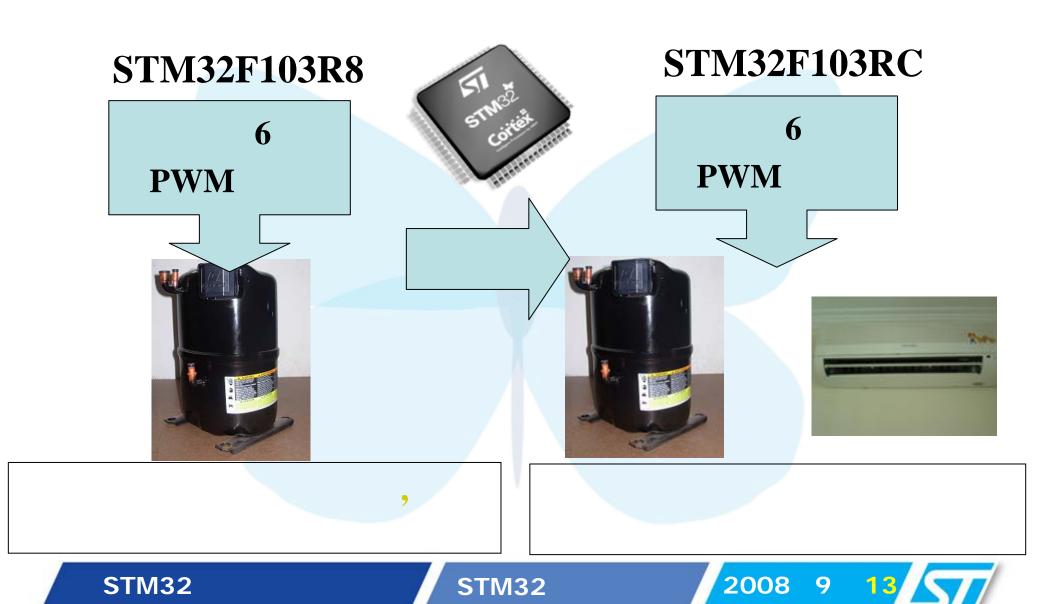
LIN IrDA ISO7816-3

CTS/RTS

USART x 5

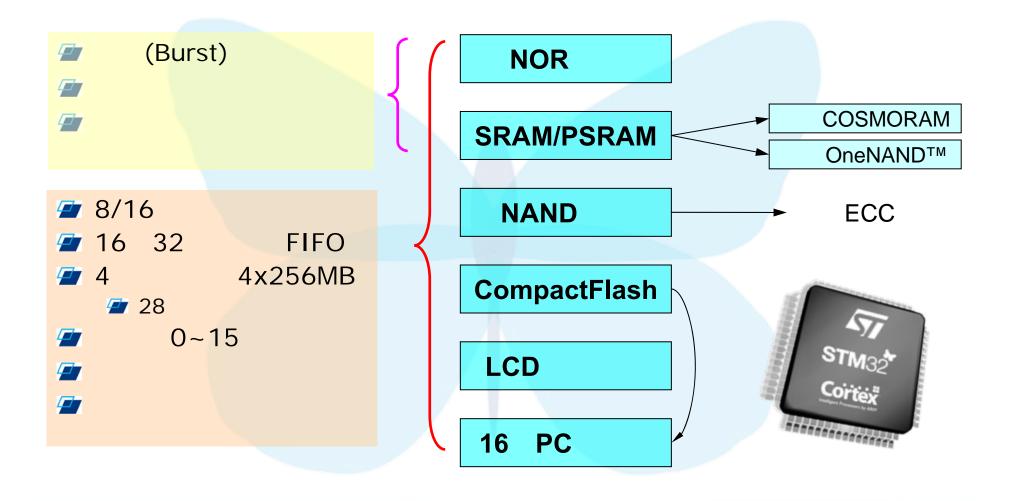
STM32

STM32



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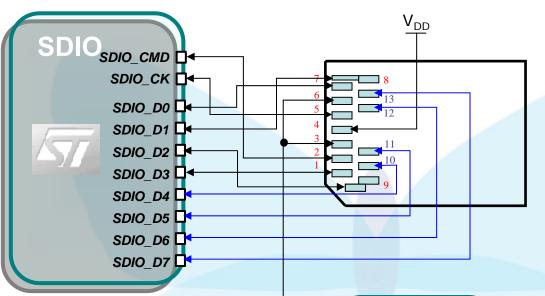


STM32

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SDIO



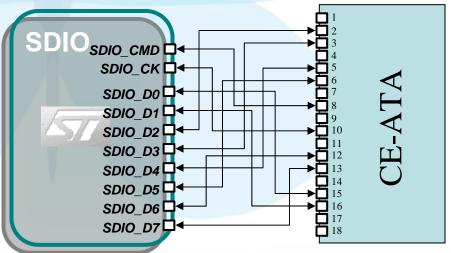








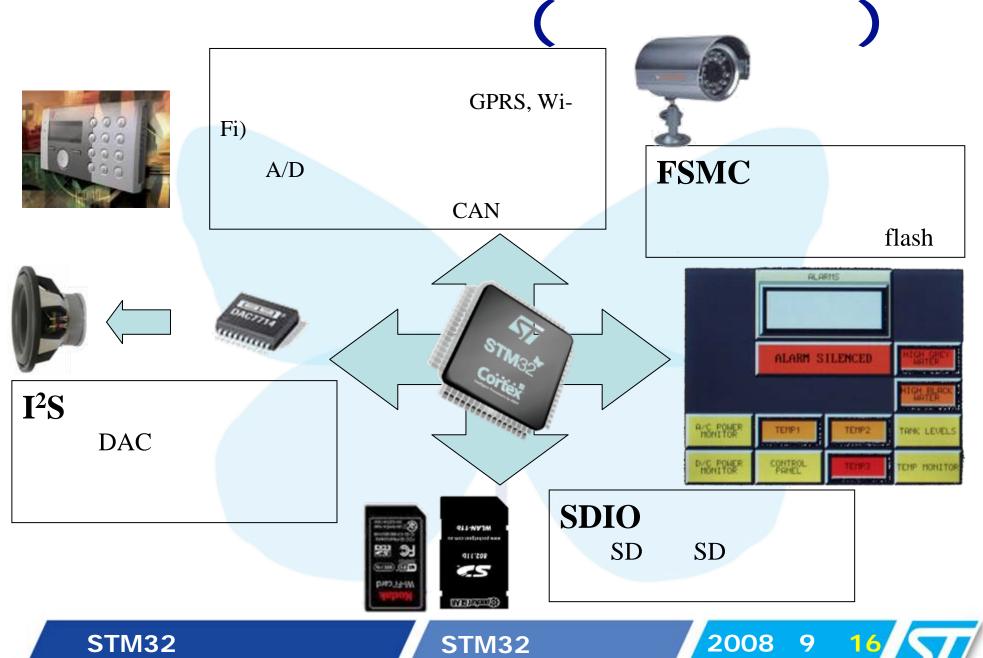




STM32

STM32







BGA100 (10x10mm)



BGA144 (10x10mm)



QFN36

(6x6mm)



LQFP48 (7x7mm)



LQFP64 (10x10mm)



LQFP100 (14x14mm)

LQFP144 (20x20mm)

STM32

STM32

IEC60335

☎ IEC60335-1 Ed4

- **2007** 10
- IEC60335, Class B



) IEC60335





STM32

STM32



IEC60335-1



MCU





MCU



MCU



MCU



calss C



STM32

STM32

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IEC 60335-1 B

MCU

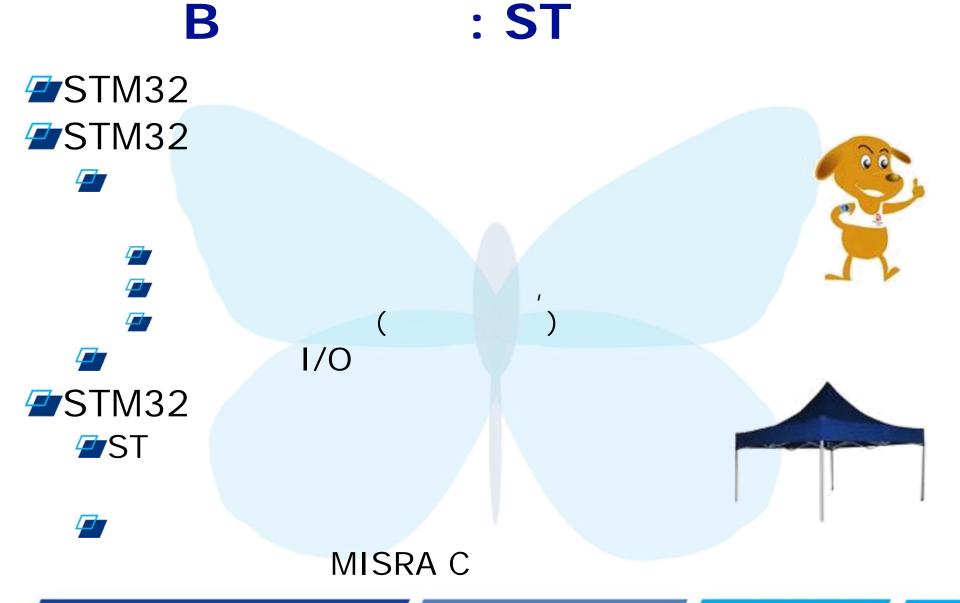
4			
=		MCU ST	
	RAM		
	ROM/Fla	ısh	

CPU	
CPU	()
	1/0
	A/D D/A

STM32

STM32

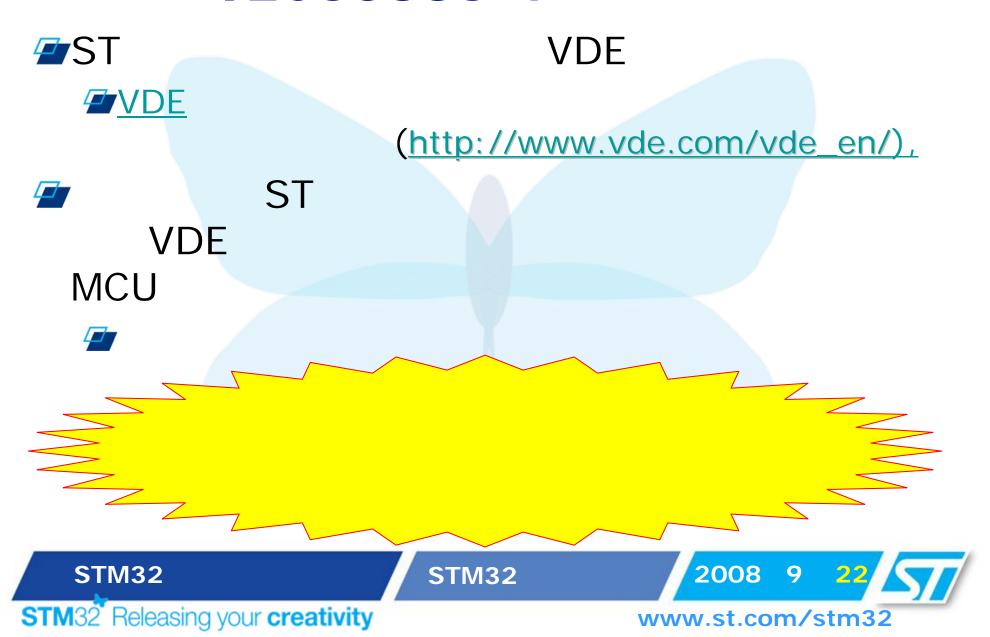
2008 9 20

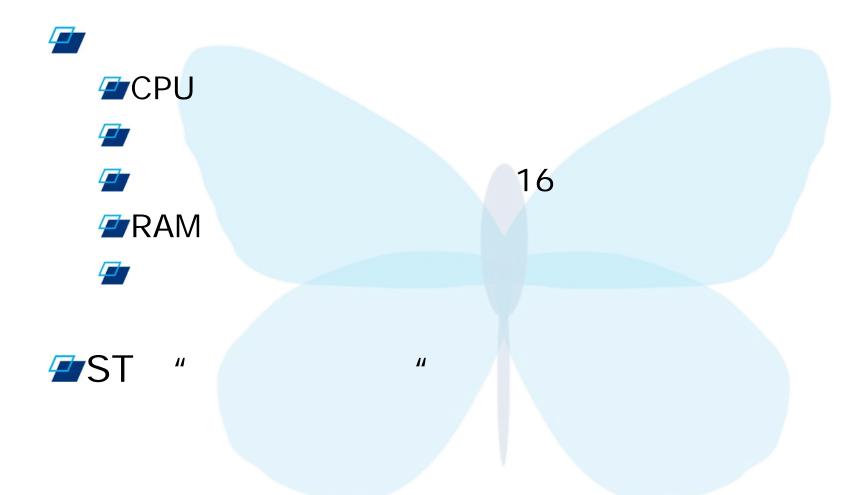


STM32

2008 9 21

IEC60335-1











PRAM









21IC ST MCU

22006 8 1

21IC

ST

STM32







STM32

STM32

25/5//





4

EDNChina STM32

STM32

STM32

STM32

EDNChina STM32 STM32







STM32 学习进阶大赛

STM32

STM32

26/5//

Solutions @

S

STM32

	1D						/RMB
	likee	5727	1718	0.6	1030	6757	5000
	computerOO	4870	1718	0. 75	1289	6159	3000
	zhonghuahun212	4388	1718	0.5	859	5247	3000
	sunke9	2051	1718	0.6	1030	3081	3000
	proncu	1717	1718	0.7	1202	2919	1000
	xi ong_gang_whut	1311	1718	O. 7 5	1299	2610	1000
	l i ongt	555	1718	0.5	859	1414	1000
	hvarm	396	1718	0. 55	945	1341	1000
	j i zzl l	243	1718	0.6	1030	1273	1000

STM32

STM32

2008 9 27

ID						/RMB
wangxi ng	4154	1247	0. 55	686	4840	3000
xi ewei chao	3527	1247	0.5	624	4151	1000
zhonghuahun212	3524	1247	0.5	624	4148	500





STM32

STM32

2008 9 <mark>28</mark>





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STM32 释放你的创造力



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STM32知识竞赛

资源中心

市场调查

STM32团队

活动说明

意法半导体携手EDN面向所有注册会员举办了一系列活动,旨在帮助中国工程师了解和熟悉STM32,交流STM32的开 发心得、经验及成果等,欢迎广大爱者涌跃参加。

STM32系列32位闪存微控制器基于突破性的ARM CortexTM - M3内核,这是一款专为嵌入式应用而开发的内核。

▼ 产品新闻



意法半导体(ST)大幅扩展STM32微控制器产品系列

微控制器的世界领先企业意法半导体(纽约证券交易所代码:STM)宣布,其改写 市场结构的32位STM32系列微控制器,在系统可伸缩性和外设选择性方面全面升 级。自2007年6月间世以来,STM32系列微控制器以市场定位优势与技术领先,赢 得各种大规模应用的龙头企业的青睐,扩产订单源源不断。[详细]

·意法半导体(ST)的STM32微控制器开发工具获奖肯定

意法半导体(ST)推出首款在基于ARM Cortex的微控制器上运行的无传感器磁场定向电机控制... [2008-02-05]

[2008-05-26]

用户名 △ 会员注册 | 忘记密码? 用户登录 输入您的电子邮件地址 订阅eNewsletter 9 更新信息 □ 年度登记

STM32团队小组热门话题

加入小组

·参加STM32知识竞赛,有机会获得免费STM32学习套件!

•用stm32芯片能否自己构成一个数据采集卡?

【STM32组】问题/讨论送于STM32F103RET6的DAC硬...

STM32的SPI中NSS管脚问题

stm32 管脚能驱动uln2803 2003吗?











STM3210-LK

(ST-LINK II)

STM32

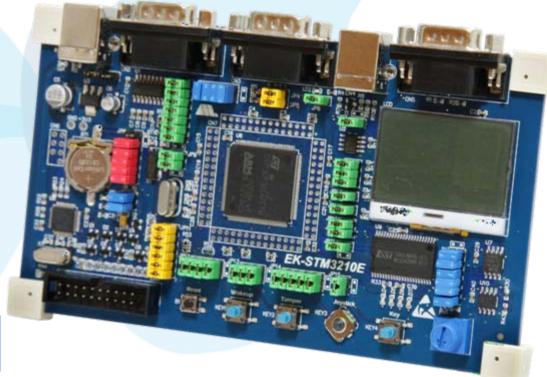
≅ 2KB/s

USB

: RMB230

STM32F103

STM32



STM32

STM32

STM32



STM32 Mini Kit







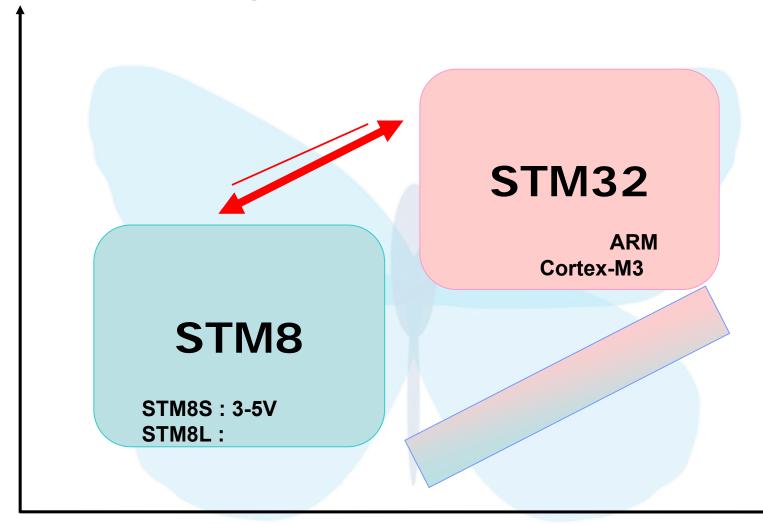


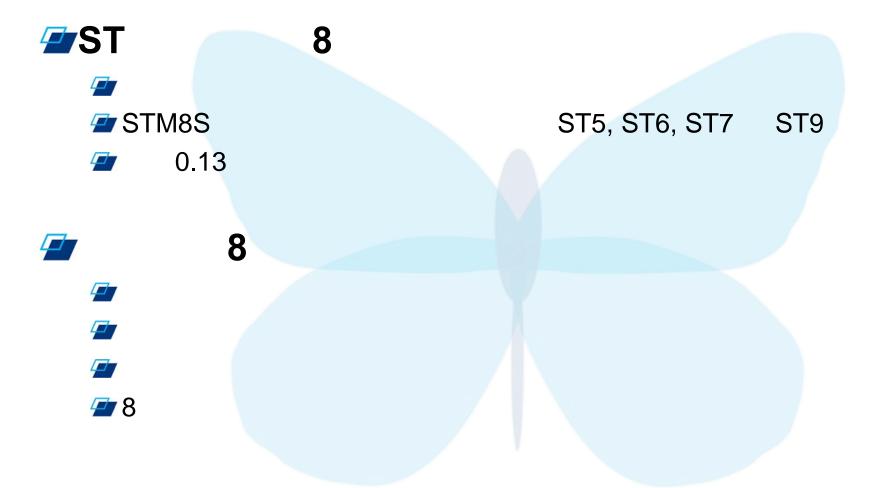
RMB129

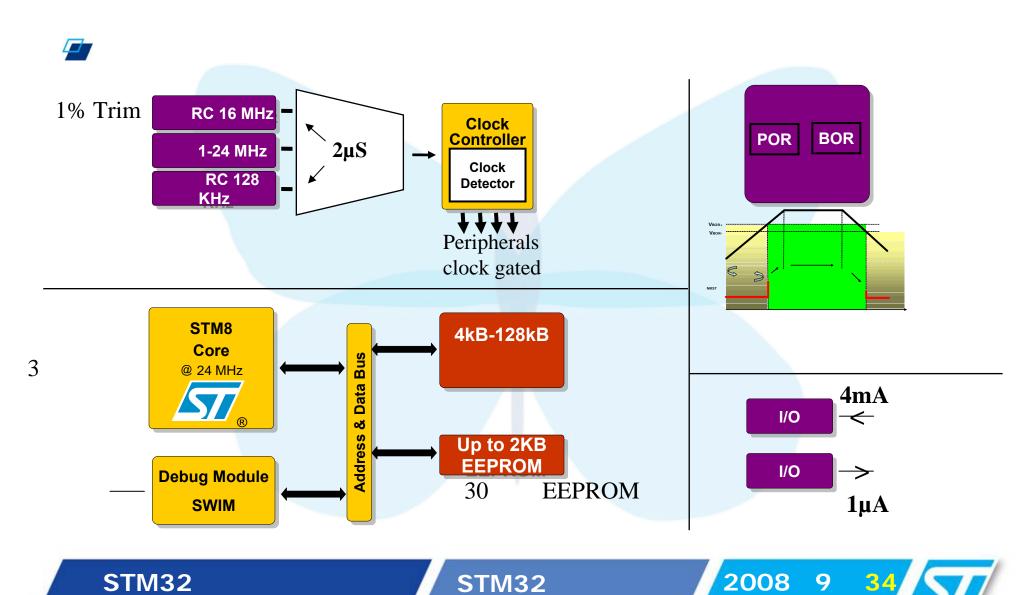




ST

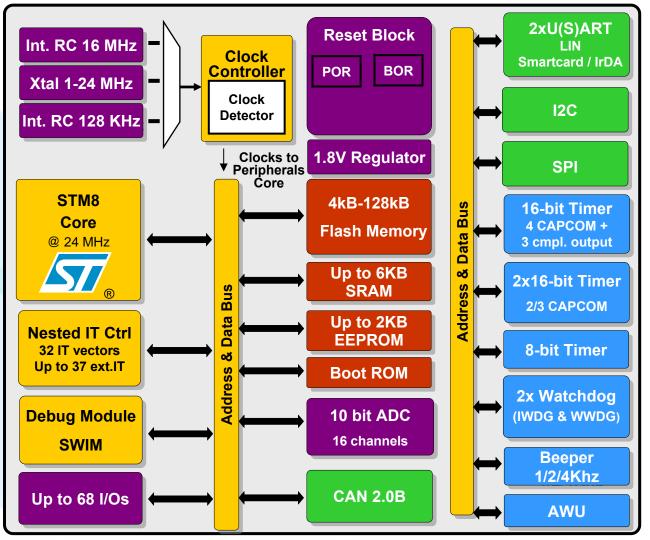






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STM32

STM32

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457/

UART LIN /Smartcard / IrDA

I2C 400 KHz multi-master

> SPI 10MHz

Up to 3x16-bit Timer 8-bit Timer

2x Watchdog (IWDG & WWDG)

AWU Beeper 1/2/4Khz

10-bit ADC
Up to 16 channel

XTAL 16MHz int.RC osc. 128KHz int.RC osc.

SWIM Debug Module

STM8S20x





STM8S10x

STM8
Core
@ 16 MHz
SRA

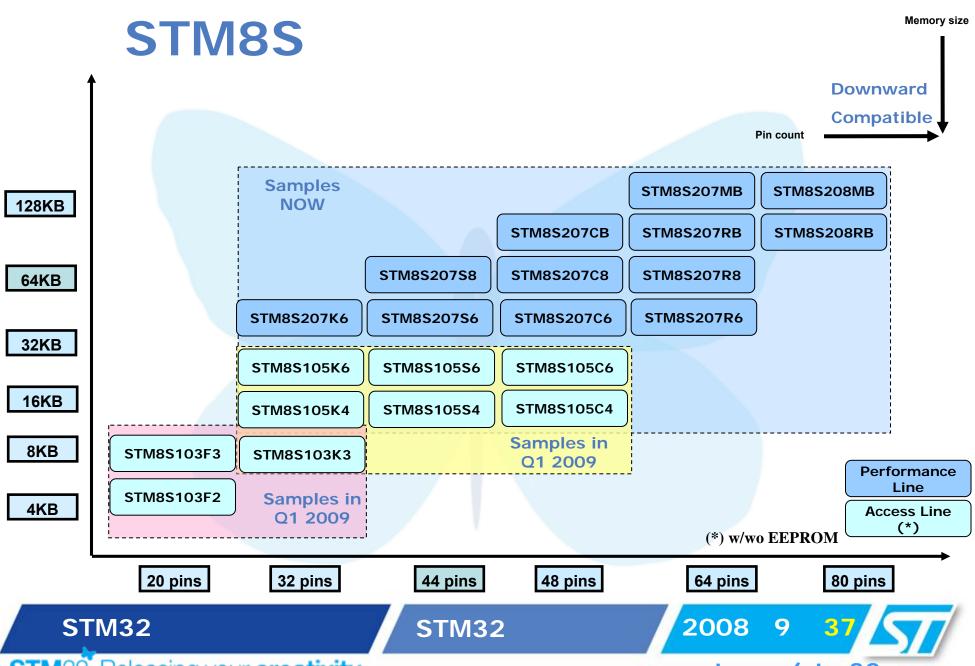
Up to 2KB SRAM Up to 1KB EEPROM

STM32

STM32

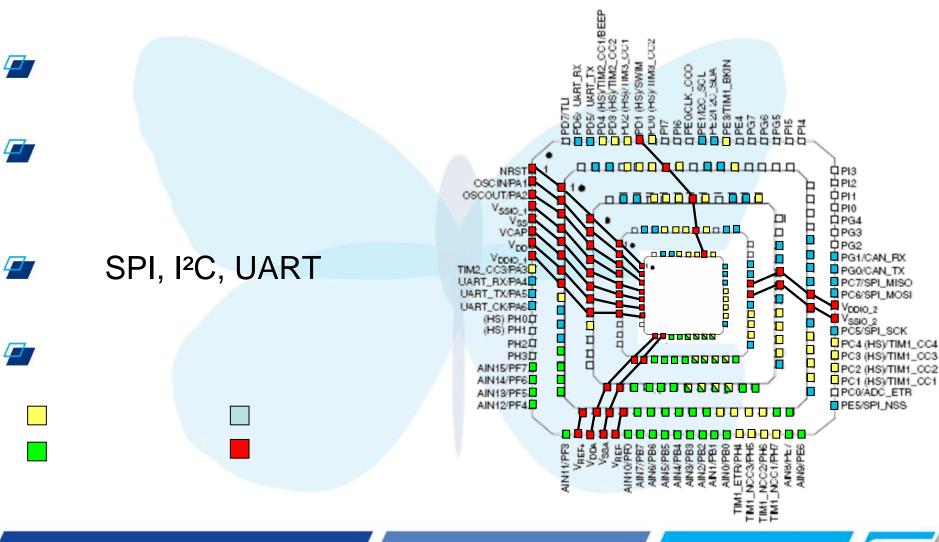
2008 9





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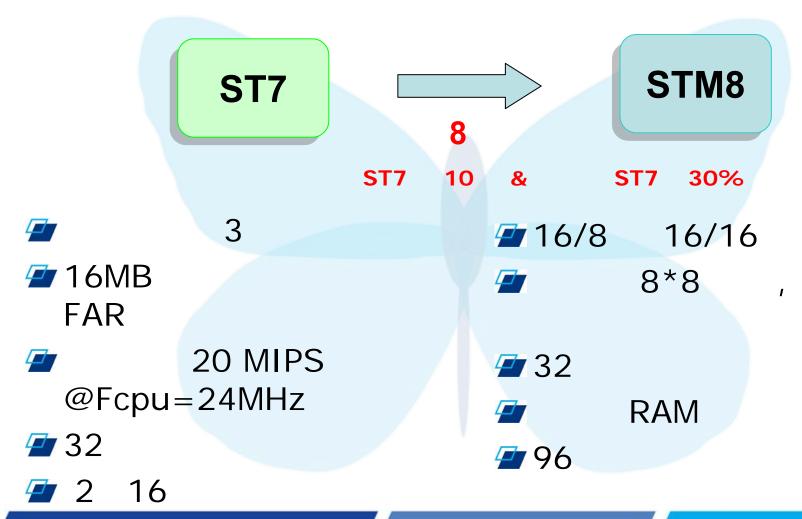


STM32

STM32

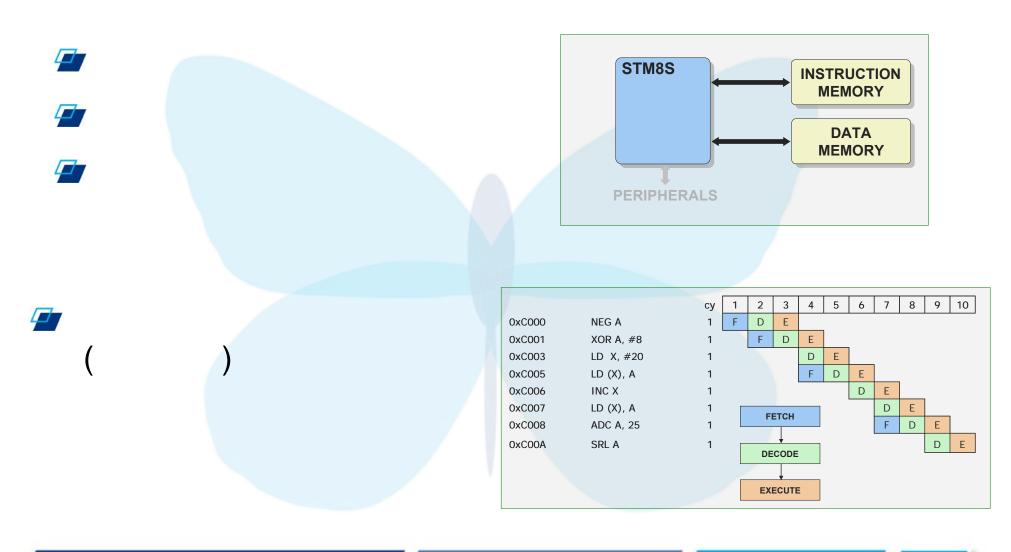
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STM32

STM32

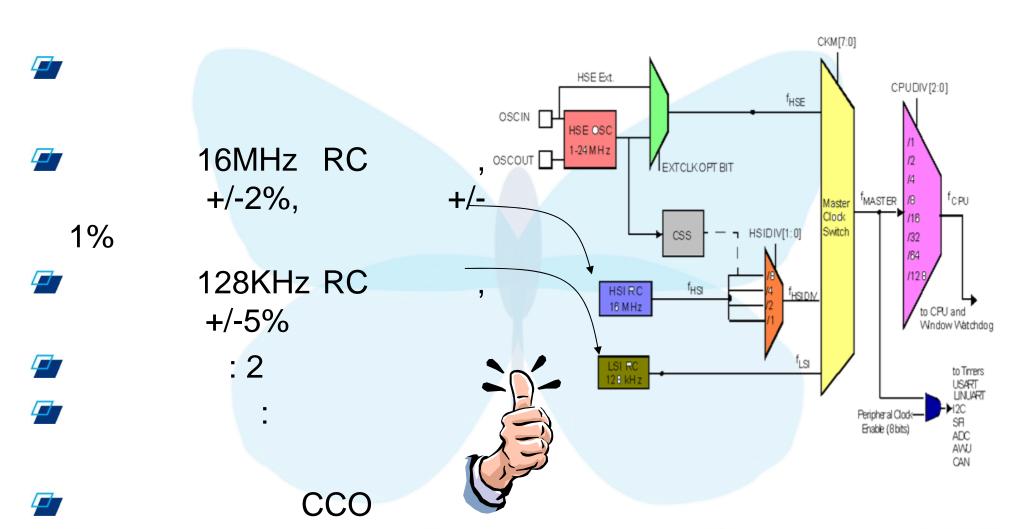


STM32

STM32

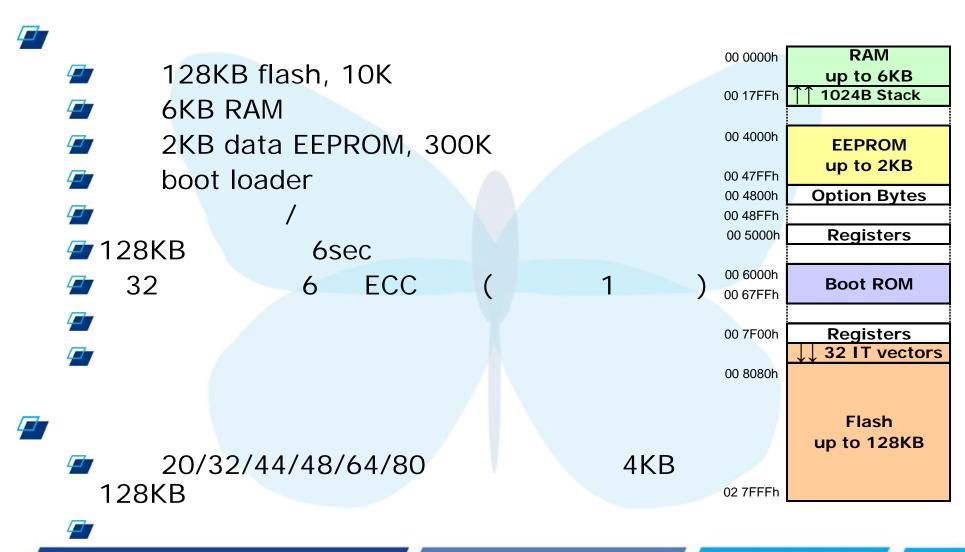
2008 9 40

<u>•/57/</u>



STM32

STM32



STM32

STM32

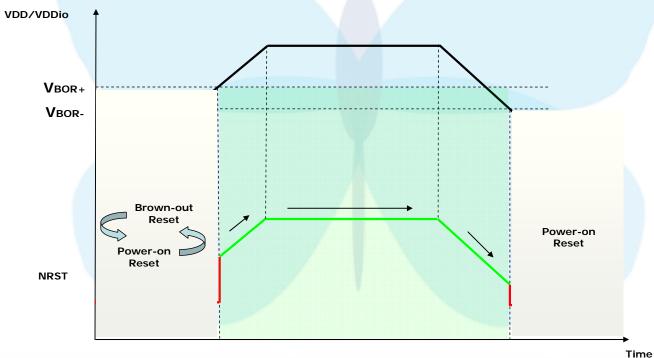
STM8S (BOR)

(POR)





✓ VBOR+=2.95V and VBOR-=2.88V



STM32

STM32

2008 9



2

STM8S208MB		CPU			()
*	ON 📄	ON 🗬	OFF 🔀		2.5	
**	ON 📄	ON 🗬	ON 🗬		1 +0.6	/
	ON 📄	ON 🗬	ON 🗬			
16Mhz 5V	ON 🕏	OFF 🔀	ON 🔯		1.3	
128Khz	128Khz	OFF 🔀	OFF 🔀	(2µS)	250	
128Khz	128Khz	OFF 🙀	OFF 🔀	(100µs)	11.5	
5V	OFF 🔀	OFF 🔀	OFF 📓	(100µS)	5.5	

* , 16MHz 5V 25 ° C ** 5V 25 ° C

16MHz

STM32

STM32

2008 9 44

4/57/

STM8S IO



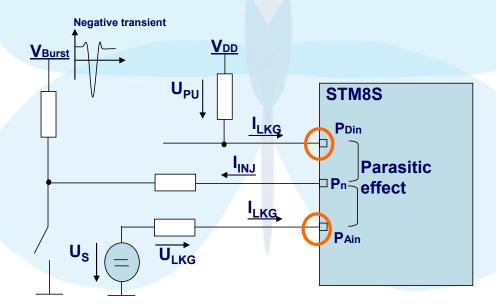








4mA 1μΑ



STM32

STM32

Class B of IEC60335

■ ST STM8S IEC 60335 / IEC 60730

- Specific hardware features of STM8S to help in conformance to safety regulations
 - Dual watchdog architecture, IWDG+WWDG
 - ✓ Internal clock sources, HSI and LSI RC
 - Clock security system, CSS, to monitor external clock source
 - Error correction code on memory, ECC
 - High impedance state for I/Os under RESET
- Class B self-diagnostic library for STM8
 - STL, self-test library for CPU, RAM, flash, WDG and clock source check at start-up
 - Run-time test routines for CPU, RAM, flash, WDG, clock source and stack overflow check
 - Application note and user manual for the library
 - Self-test library f/w modules approved by the VDE
 - ☑ All f/w libraries are MISRA C compliant

VDE

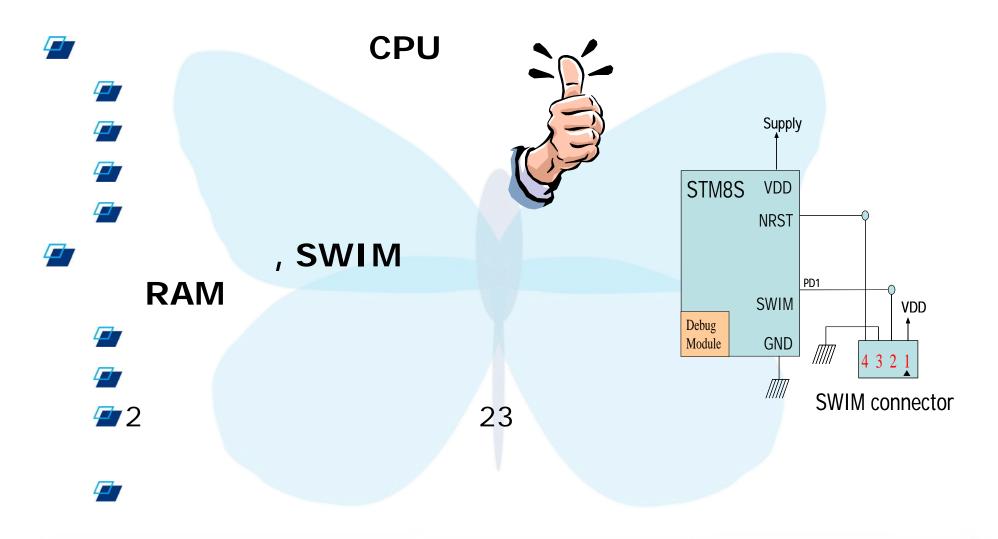
STM32

STM32

2008 9 46

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SWIM



STM32

STM32

STICE-SYS001- ST

STM8/128-EVAL- ST

STM8/128-SK/RAIS-

STX-RLINK 3 —



199RMB

RAISONANCE



\$150



\$1990



\$219



STX-RLINK

\$59

All recommended resale prices

STM32

STM32

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48



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- ST Visual Develop (STVD),
- ST Visual Programmer (STVP),
- **STM8S**
- STM8S IEC 60335 ClassB

- Raisonance RIDE,
 RBuilder RFlasher
- Raisonance C , 16KB
- Cosmic C , 16KB



STM32

STM32

2008





STM32

STM32



8-bit microcontroller families

		Program memory		- Anna	Deta	27424	Timer functions				L/Os		Supply				
Part number		Туре		Size RAM (bytes)		E-PROM	A/D inputs	12 or 16-bit		27	Serial interface	LVD levels	(high	Packages	voltage	Special features	
			ROM	(Kbytes)		(bytes)		(IC/OC/ PWM)	(IC/OC/ PWM)	Others		C	current')		(A)		
STM8 - 8-bit microcontrollers																	
	STM8S104K4	•		16	2K		7x10-bit		1x8-bit			25(8)	LOFP32, VOFN32				
왕	STM8S104K6	•		32	2 K		7x10-bit		1x8-bit				25(8)	LOFP32, VOFN32			
w _E	STM8S105K4	•		16	2 K	1K	7x10-bit	3x16-bit (8/8/11)	1x8-bit				25(8)	LOFP32, VOFN32			
	STM8S105K6			32	2 K	1 K	7x10-bit		1x8-bit			25(8)	LOFP32, VOFN32				
	STM8S104S4	•		16	2 K		9x10-bit		1x8-bit		SPI, IPC, UART (IrDA,		34(8)	LQFP44	3.0 to 5.5	Access Line: 16 MHz CPU speed, PCR, BOR, SWIM, 16 MHz and	
48	STM8S104S6 STM8S105S4 STM8S105S6	•		32	2 K		9x10-bit		1x8-bit				34(8)	LQFP44			
49	STM8S105S4			16	2K	1K	9x10-bit		1x8-bit	SPI, I ² C, UART (I ² DA, ISO 7816) SPI, I ² C, 2xUART (I ² DA, ISO 7816) SPI, I ² C, 2xUART (I ² DA, ISO 7816) SPI, I ² C, 2xUART (I ² DA, ISO 7816), CAN SPI, I ² C, 2xUART (I ² DA, ISO 7816), SPI, I ² C, 2xUART (I ² DA, ISO 7816), CAN (I ² DA, ISO 7816), CAN (I ² DA, ISO 7816), CAN		34(8)	LQFP44	3.010 5.5	128 kHz internal RC oscillator ICP, IAP, boot ROM, beeper, TLI		
	STM8S105S6	•		32	2 K	1 K	9x10-bit		1x8-bit			34(8)	LQFP44				
	STM8S104C4			16	2K		10x10-bit		1x8-bit				38(9)	LQFP48			
\$ E	STM8S10406	•		32	2 K		10x10-bit	3x16-bit	1x8-bit				38(9)	LQFP48			
40	STM8S105C4			16	2 K	1K	10x10-bit	(9/9/12)	1x8-bit				38(9)	LQFP48			
	STM8S10506			32	2 K	1 K	10x10-bit		1x8-bit				38(9)	LQFP48			
SHE	STM8S207K4			16	2K	1K	7x10-bit	3x16-bit (8/8/11)	1x8-bit				25(8)	LOFP32, VOFN32	3.0 to 5.5	Performance Line: 24 MHz CPU speed, PCR, BCR, SWM, 16 MHz and 128 kHz internal RC oscillator ICP, IAP, boot ROM, beeper, TLI	
~≣	STM8S207K6			32	2 K	1K	7x10-bit		1x8-bit				25(8)	LOFP32, VOFN32			
# Silled	STM8S207S6	•		32	2 K	1K	9x10-bit		1x8-bit				34(8)	LOFP44			
4.9	STM8S207S8	•		64	4K	1.5 K	9x10-bit		1x8-bit				34(8)	LQFP44			
- 00	STM8S20706	•		32	2K	1K	10x10-bit		1x8-bit				38(9)	LQFP48			
S = 5	STM8S207C8			64	4K	1.5 K	10x10-bit	3x16-bit (9/9/12)	1x8-bit		SPL I2C, 2xUART	SPL I2C, 2xLIART	38(9)	LQFP48			
	STM8S207CB			128	6K	2K	10x10-bit		1x8-bit		(IrDA, ISO 7816)		38(9)	LQFP48			
	STM8S207R6			32	2 K	1 K	16x10-bit		1x8-bit				52(9)	LQFP64			
	STM8S207R8			64	4K	1.5 K	16x10-bit		1x8-bit				52(9)	LQFP64			
西島	STM8S207RB	•		128	6 K	2K	16x10-bit		1x8-bit				52(9)	LQFP64			
~a	STM8S208RB			128	6 K	2 K	16x10-bit		1x8-bit		SPI, I2C, 2xUART (IrDA, ISO 7816), CAN		52(9)	LQFP64			
80 pins	STM8S207MB			128	6 K	2 K	16x10-bit		1x8-bit				68(11)	LQFP80			
88	STM8S208MB	•		128	6 K	2 K	16x10-bit		1x8-bit				68(11)	LQFP80			

STM32

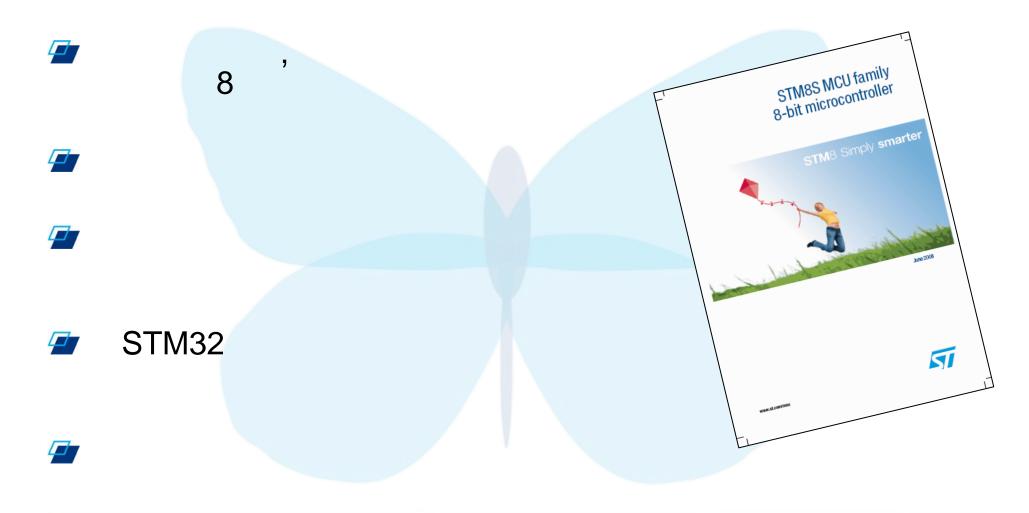
STM32

www.st.com/stm8s

- www.st.com/mcu

 - IEC 60335 ClassB
 - STVD & STVP PC

 - 47



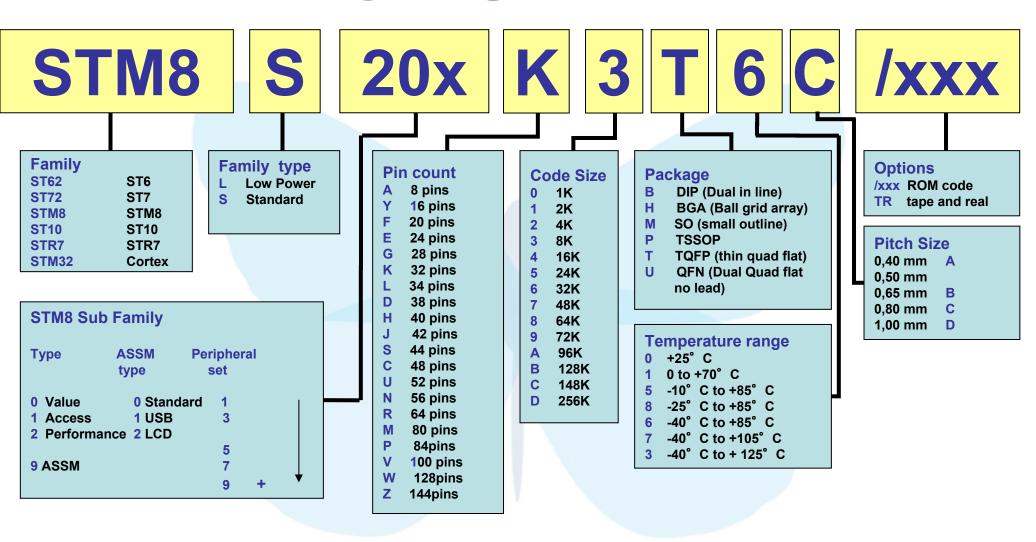
STM32

STM32

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53/5//

STM8



STM32

STM32

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54/57

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www.st.com/mcu

mcu.china@st.com



