创新服务全民

DRIVEN BY INNOVATION

国民技术微信公众号　国民技术MCU论坛　Nations 加油站

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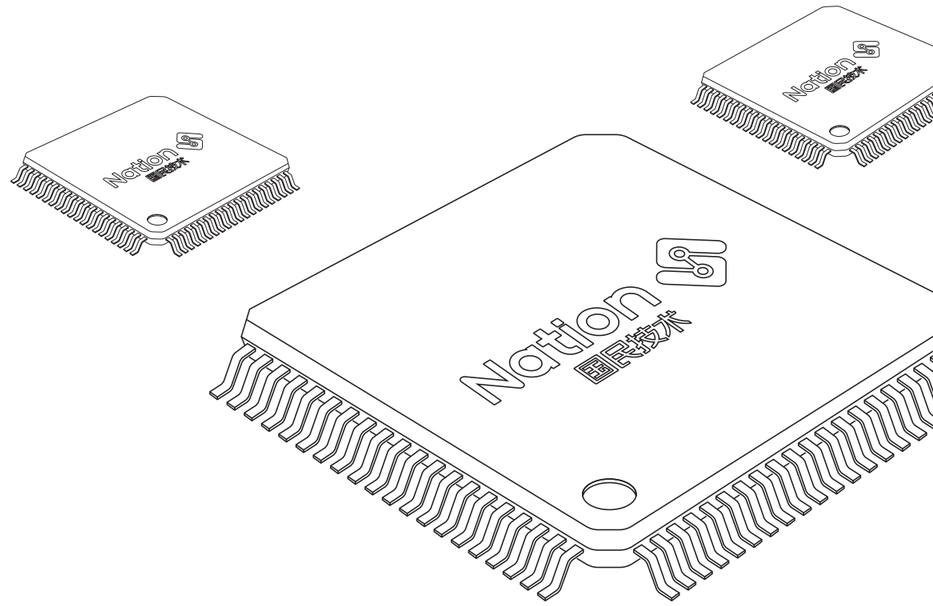
Nation 国民技术

股票代码：300077

国民技术

芯片产品选型表

通用MCU　安全芯片　无线射频



国民技术股份有限公司
2022年5月版

公司致力于为人们

安全、便捷、智能的生产生活提供芯片及解决方案



国民技术股份有限公司

2000年成立

2010年上市

股票代码:300077

技术领域

安全、SOC、射频、电源

资质与荣誉

- 中国上市公司协会副会长
- 国家级高新技术企业
- 国家级博士后科研工作站
- 深圳自主创新行业龙头企业
- 深圳市工程技术研究开发中心
- 深圳市重点实验室
- 深圳市信息安全芯片技术工程研究中心
- 公安部“中关村安信网络身份认证产业联盟”发起单位

科研成就

- “863 计划”[注1]、“03 专项”[注2]、“核高基”[注3]
- 拥有1400多项国内外专利,其中发明专利超过1000项
- 2017年摘得国家知识产权最高荣誉——中国专利金奖
- 获得9项中国专利优秀奖
- RCC(限域通信)技术于 2017年 5 月正式成为国家标准
- 推动并参与了可信计算新一代 ISO/IEC 国际标准的制定

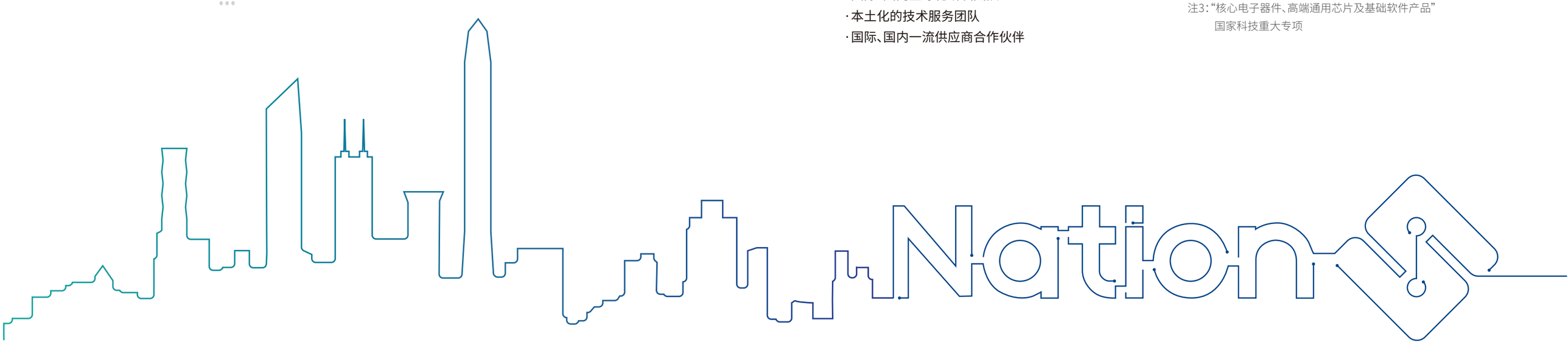
服务能力

- 国际、国内全球化研发团队
- 本土化的技术服务团队
- 国际、国内一流供应商合作伙伴

注1:国家高技术研究发展计划

注2:“新一代宽带无线移动通信网”国家科技重大专项

注3:“核心电子器件、高端通用芯片及基础软件产品”国家科技重大专项



MCU产品

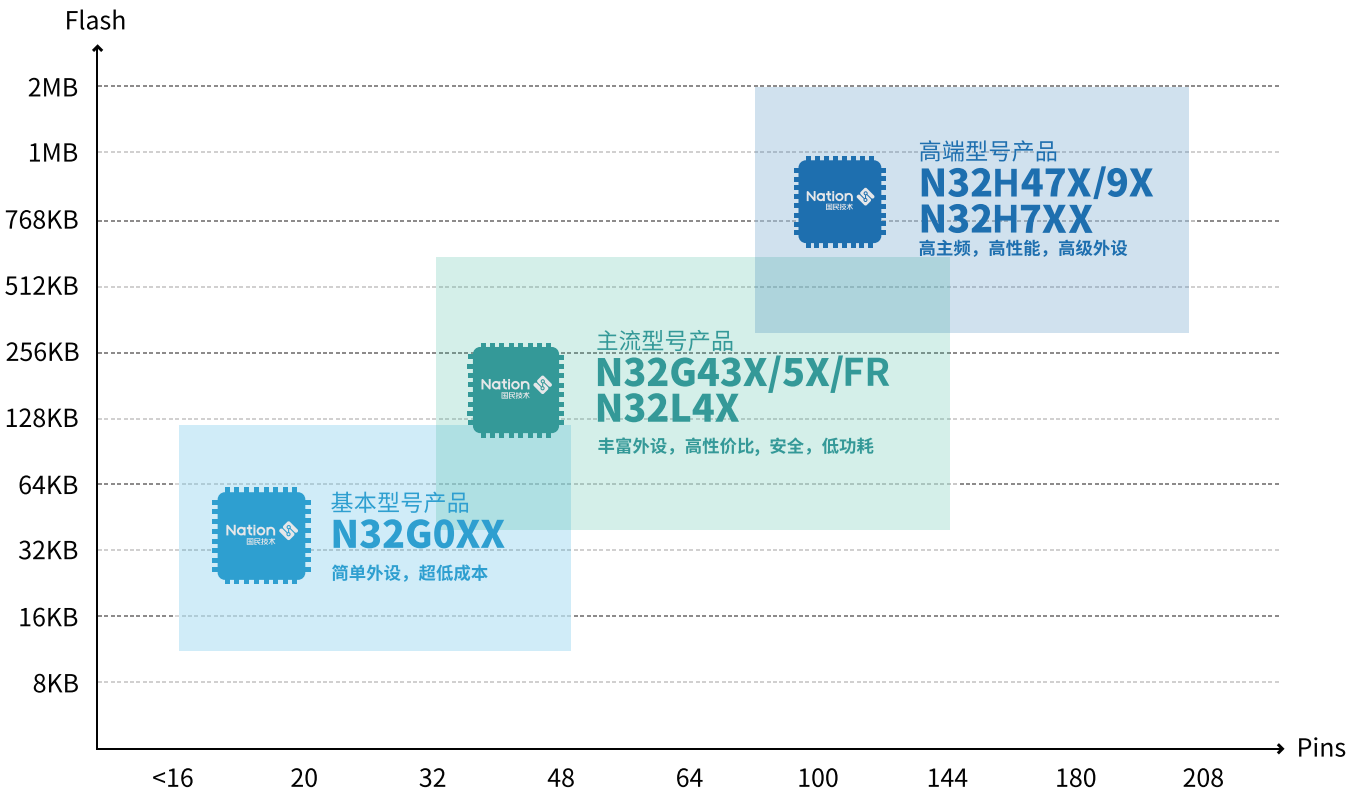
产品介绍

概述

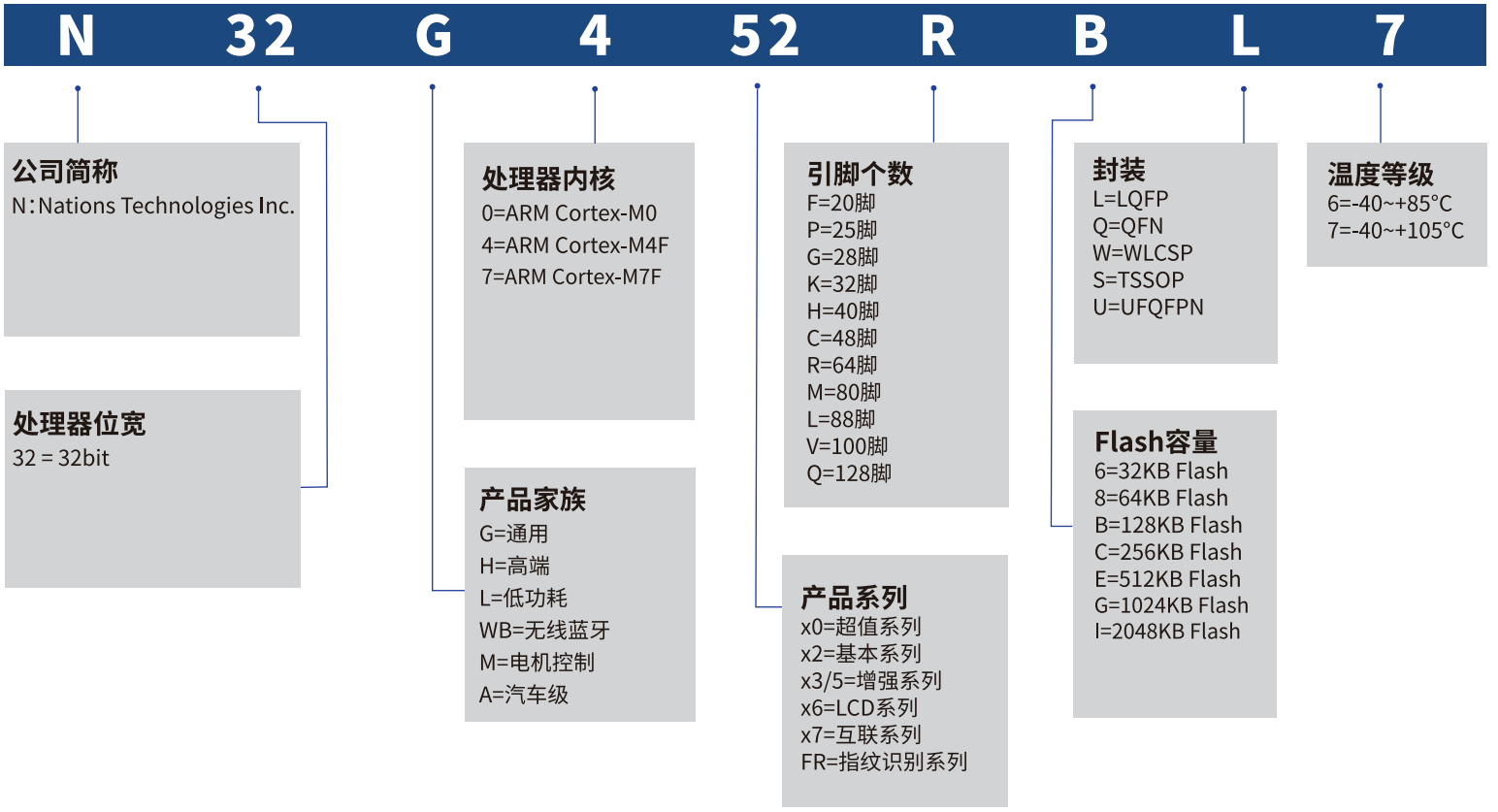
MCU 产品家族基于国民技术安全 SOC 技术平台架构，采用 32 位 ARM Cortex-M 处理器内核，内置嵌入式高速闪存、低功耗电源管理，集成数模混合电路，并内置多种密码算法硬件加速引擎以及安全单元，打造以安全、高性能、高集成度、低功耗、低成本、简单易用为特色的通用 MCU 系列产品。全面覆盖各种智能物联与控制应用场景，用于物联网、工业联网及工业控制、智能家电及智能家庭物联网终端、消费电子、电机驱动、电池及能源管理、智能表计、医疗电子、汽车电子、安防、生物识别、通讯、传感器、机器自动化等应用领域。

Roadmap

为各行业持续创新提供超过**200**款芯片产品型号



MCU产品命名规则


N 32 G 4 52 R B L 7
公司简称
N：Nations Technologies Inc.
处理器位宽
32 = 32bit
处理器内核
0=ARM Cortex-M0
4=ARM Cortex-M4F
7=ARM Cortex-M7F
产品家族
G=通用
H=高端
L=低功耗
WB=无线蓝牙
M=电机控制
A=汽车级
产品系列
x0=超值系列
x2=基本系列
x3/5=增强系列
x6=LCD系列
x7=互联系列
FR=指纹识别系列
引脚个数
F=20脚
P=25脚
G=28脚
K=32脚
H=40脚
C=48脚
R=64脚
M=80脚
L=88脚
V=100脚
Q=128脚
Flash容量
6=32KB Flash
8=64KB Flash
B=128KB Flash
C=256KB Flash
E=512KB Flash
G=1024KB Flash
I=2048KB Flash
封装
L=LQFP
Q=QFN
W=WLCSP
S=TSSOP
U=UFQFPN
温度等级
6=-40~+85°C
7=-40~+105°C

安全芯片

产品系列	产品型号	CPU核	主频(MHz)	Flash(KB)	ROM(KB)	EEPROM(KB)	SRAM(KB)	I/O	工作电压、工作温度	定时器			PWM通道数	ADC		DAC	Capture	COMP	LCD	非轨磁头	通信接口						DMA/通道数	ESD(HM)		功耗			安全管理	Cryptographic algorithm	封装	资质认证						
										Timer	SysTick	RTC		个数×精度	通道数						ISO7816	UART	SPI/I²S	I²C	USB Device	ISO14443		接触(KV)	非接触(KV)	PowerDown	Standby	Run(Typ)				国家密码管理局	中国信息安全测评中心	中国信息安全认证中心	银行卡检测中心	NIST	USB-IF协会
多用途安全芯片	N32S032	ARM Cortex-M0	80	320	–	–	21	30	1.8V~5.5V/-40~+85°C	5	1	1	8	1x12bit	12	1	5	1	–	–	1	3	2/–	2	1	–	1/8	±4	–	0.1uA	80uA	110uA/MHz	•	AES/DES/3DES/SM1/SM4、RSA/ECC/SM2/SM9、SHA1/224/256/384/512/SM3	QFN48 QFN32 QFN20/SOP8	二级	EAL5+	–	–	FIPS140-2 CAVP认证	USB IF认证
	N32S033	ARM Cortex-M0	80	512	–	–	33	30	2.7V~5.5V/-25~+85°C	5	1	1	1	1x10bit	10	–	5	1	–	–	1	2	2/1	2	1	–	1/6	±4	–	0.1uA	80uA	125uA/MHz	•		QFN48 QFN32 SOP8	二级	EAL4+	–	–	–	
	Z32HUB	ARM Cortex-M0	60	320	–	–	16	22	2.7V~5.5V/-25~+85°C	2	1	–	1	–	–	–	–	1	–	–	–	1	1/–	–	1	–	2/1	±4	–	1uA	130uA	500uA/MHz	•		QFN32	二级	EAL4+	–	–	FIPS 140-2 CAVP认证	USB IF认证
	Z32HUA	ARM Cortex-M0	80	512	–	–	51	33 20	2.4V~5.5V/-25~+85°C	5	1	1	–	1x12bit –	3 –	1	–	–	–	• –	3 –	1	3/– 1/–	1	1	–	1/8	±4	–	1uA	130 uA	20 mA	•		QFN68 QFN32	二级	EAL4+	–	终端芯片安全评估,个人支付终端安全评估	FIPS 140-2 CAVP认证	USB IF认证
	Z8IDA	Zi80 51-SC	32	–	96	32	8	–	2.7V~5.5V/-25~+85°C	–	–	–	–	1x10bit	3	–	–	–	–	–	1	–	–	1	–	–	–	–	–	–	50 uA	4mA	•	DES/3DES/SM4/SSF33,RSA/SM2,ECC,SHA1/SHA256/SM3	DFN8 SOP8	二级	–	–	–	–	–
安全芯片 OTP动态口令牌	Z8D16R-2	Zi80 51-SC	2	48	–	–	3.25	16	2.4V~3.6V/-20~+70°C	–	–	1	–	1x10bit	3	–	–	–	•	–	–	1	–	–	–	–	–	±4	–	<0.8 uA	<2uA @32.768KHz	<5uA @32.768KHz:<130 uA	•	SM3	Die	一级	–	–	–	–	–
安全芯片 大容量	Z32HM	M4K RISC	60	1024	–	–	48	5	2.7V~5.5V/-25~+85°C	–	–	–	–	–	–	–	–	–	–	–	2	1	1/–	–	–	–	4	–	–	–	<100 uA	7mA @Core 60MHZ 3.5mA @Core 30MH	–	DES/3DES/AES/SM1/SM4/SM7/SSF33,RSA/SM2,SHA 1/224/256/SM3	WLCSP SOP8 DFN8	二级	EAL4+	EAL4+	–	FIPS 140-2 CAVP认证	–
安全芯片 双界面智能卡	Z32HCD2	ARM Cortex-M0	50	–	256	40	11	4	2.4V~5.5V/-25~+85°C	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	1	–	–	±4	±6	<200 uA	<200 uA	6mA	–	DES/3DES/SM1/SM4/SM7/SSF33,RSA/SM2,ECC,SHA1/256/SM3	条带/载带	二级	–	EAL4+	PBOC3.0(借记/贷记)QPBOC/QPBOC扩展),第三代社会保障卡(含物理特性)COS检测	FIPS 140-2 CAVP认证	–
	Z32HCD2S	ARM Cortex-M0	50	–	320	80	11	4		–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	1	–	–	±4	±6	<200 uA	<200 uA	6mA	–							

注:“·”表示支持 “-”表示不支持

通用MCU

产品系列	产品型号	内核	主频(MHz)	Flash(KB)	SRAM(KB)	I/O	工作电压、工作温度	定时器		PWM通道数		ADC		DAC	OPAMP	COMP	LPRCNT	TSC	BEEPER	通信接口									DMA/通道数	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	封装
								硬定时器	RTC	PWM	互补PWM	个数x精度	通道数							USART/ISO7816	UART	LPUART	SPI/I²S	QSPI	I²C	USB Device	CAN	SDIO					
N32G452	N32G452CBL7	ARM Cortex-M4F	144	128	80	37	1.8V~3.6V、-40~+105°C	8	1	23	6	2x12bit	10	2x12-bit	–	–	–	–	–	3	3	–	3/2	1[1]	3	1	2	–	2/16	–	–	–	DES/3DES、AES、SHA1/SHA224/SHA256、SM1、SM3、SM4、SM7、MD5、CRC16/CRC32、TRNG	LQFP48
	N32G452CCL7		144	256	144	37		8	1	23	6	2x12bit	10	2x12-bit	–	–	–	–	–	3	3	–	3/2	1[1]	3	1	2	–	2/16	–	–	–		LQFP48
	N32G452CEL7		144	512	144	37		8	1	23	6	2x12bit	10	2x12-bit	–	–	–	–	–	3	3	–	3/2	1[1]	3	1	2	–	2/16	–	–	–		LQFP48
	N32G452CCT7		144	256	144	37		8	1	23	6	2x12bit	10	2x12-bit	–	–	–	–	–	3	3	–	3/2	1[1]	3	1	2	–	2/16	–	–	–		LQFP48
	N32G452RBL7		144	128	80	51		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP64(10mmx10mm)
	N32G452RCL7		144	256	144	51		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP64(10mmx10mm)
	N32G452REL7		144	512	144	51		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP64(10mmx10mm)
	N32G452MBL7		144	128	80	65		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP80
	N32G452MCL7		144	256	144	65		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP80
	N32G452MEL7		144	512	144	65		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP80
	N32G452VCL7		144	256	144	80		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP100
	N32G452VEL7		144	512	144	80		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP100
	N32G452QCL7		144	256	144	97		8	1	24	12	2x12bit	18	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP128
	N32G452QEL7		144	512	144	97		8	1	24	12	2x12bit	18	2x12-bit	–	–	–	–	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP128
N32G455	N32G455CBL7		144	128	80	37		8	1	23	6	4x12bit	16	2x12-bit	4	5	–	8	–	3	3	–	3/2	1[1]	3	1	2	–	2/16	–	–	–		LQFP48
	N32G455CCL7		144	256	144	37		8	1	23	6	4x12bit	16	2x12-bit	4	5	–	8	–	3	3	–	3/2	1[1]	3	1	2	–	2/16	–	–	–		LQFP48
	N32G455CEQ7		144	512	144	42		8	1	23	6	4x12bit	16	2x12-bit	4	7	–	10	–	3	4	–	3/2	1	3	–	2	1	2/16	–	–	–		QFN48
	N32G455CEL7		144	512	144	42		8	1	23	6	4x12bit	16	2x12-bit	4	7	–	10	–	3	4	–	3/2	1	3	–	2	1	2/16	–	–	–		LQFP48
	N32G455RBL7		144	128	80	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	–	16	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP64(10mmx10mm)
	N32G455RCL7		144	256	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	–	16	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP64(10mmx10mm)
	N32G455REL7		144	512	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	–	16	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP64(10mmx10mm)
	N32G455MBL7		144	128	80	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	–	18	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP80
	N32G455MCL7		144	256	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	–	18	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP80
	N32G455MEL7		144	512	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	–	18	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP80
	N32G455VBL7		144	128	80	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	–	24	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP100
	N32G455VCL7		144	256	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	–	24	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP100
	N32G455VEL7		144	512	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	–	24	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	–		LQFP100
N32G457	N32G457RCL7		144	256	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	–	16	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP64(10mmx10mm)
	N32G457REL7		144	512	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	–	16	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP64(10mmx10mm)
	N32G457MCL7		144	256	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	–	18	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP80
	N32G457MEL7		144	512	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	–	18	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP80
	N32G457VCL7		144	256	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	–	24	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP100
	N32G457VEL7		144	512	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	–	24	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP100
	N32G457QEL7		144	512	144	97		8	1	24	12	4x12bit	40	2x12-bit	4	7	–	24	–	3	4	–	3/2	1	4	1	2	1	2/16	–	1	1		LQFP128
N32G4FR	N32G4FRKCQ7		144	256	144	24		8	1	10	6	2x12bit	7	2x12-bit	–	–	–	2	–	1	3	–	2/1	1	3	1	1	–	2/16	–	–	–		QFN32
	N32G4FRKEQ7		144	512	144	24		8	1	10	6	2x12bit	7	2x12-bit	–	–	–	2	–	1	3	–	2/1	1	3	1	1	–	2/16	–	–	–		QFN32
	N32G4FRHCQ7		144	256	144	32		8	1	12	6	2x12bit	11	2x12-bit	–	–	–	5	–	2	4	–	3/2	1	4	1	2	–	2/16	–	–	1		QFN40
	N32G4FRHEQ7		144	512	144	32		8	1	12	6	2x12bit	11	2x12-bit	–	–	–	5	–	2	4	–	3/2	1	4	1	2	–	2/16	–	–	1		QFN40
	N32G4FRREL7		144	512	144	51		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	16	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	1		LQFP64(10mmx10mm)
	N32G4FRMEL7		144	512	144	65		8	1	24	12	2x12bit	16	2x12-bit	–	–	–	18	–	3	4	–	3/2	1	4	1	2	1	2/16	–	–	1		LQFP80

注：1[1]:Only Single Wire　Y[2]:Only LCD Mode　"-"表示不支持

通用MCU

产品系列	产品型号	内核	主频(MHz)	Flash(KB)	SRAM(KB)	I/O	工作电压、工作温度	定时器		PWM通道数		ADC		DAC	OPAMP	COMP	LPRCNT	TSC	BEEPER	通信接口									DMA/通道数	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	封装
								定时器	RTC	PWM	互补PWM	个数x精度	通道数							USART/ISO7816	UART	LPUART	SPI/I²S	QSPI	I²C	USB Device	CAN	SDIO						
N32G430	N32G430F6Q7	ARM Cortex-M4F	128	32	16	16	2.4V~3.6V/-40~+105°C	8	1*	11	10	1x12bit	7	–	–	3	–	–	1	2*	1	–	2/2	–	2	–	1	–	1/8	–	–	–	CRC16/CRC32	UQFN20
	N32G430F8Q7		128	64	16	16		8	1*	11	10	1x12bit	7	–	–	3	–	–	1	2*	1	–	2/2	–	2	–	1	–	1/8	–	–	–		UQFN20
	N32G430G6Q7		128	32	16	24		8	1*	19	14	1x12bit	10	–	–	3	–	–	1	2*	2	–	2/2	–	2	–	1	–	1/8	–	–	–		QFN28
	N32G430G8Q7		128	64	16	24		8	1*	19	14	1x12bit	10	–	–	3	–	–	1	2*	2	–	2/2	–	2	–	1	–	1/8	–	–	–		QFN28
	N32G430K6Q7		128	32	16	26		8	1*	20	14	1x12bit	10	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		QFN32
	N32G430K8Q7		128	64	16	26		8	1*	20	14	1x12bit	10	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		QFN32
	N32G430C6Q7		128	32	16	40		8	1	24	14	1x12bit	16	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		QFN48
	N32G430C8Q7		128	64	16	40		8	1	24	14	1x12bit	16	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		QFN48
	N32G430F6S7		128	32	16	16		8	1*	11	10	1x12bit	9	–	–	3	–	–	1	2*	1	–	2/2	–	2	–	1	–	1/8	–	–	–		TSSOP20
	N32G430F8S7		128	64	16	16		8	1*	11	10	1x12bit	9	–	–	3	–	–	1	2*	1	–	2/2	–	2	–	1	–	1/8	–	–	–		TSSOP20
	N32G430F6S7-1		128	32	16	16		8	1*	11	10	1x12bit	9	–	–	3	–	–	1	2*	1	–	2/2	–	2	–	1	–	1/8	–	–	–		TSSOP20
	N32G430F8S7-1		128	64	16	16		8	1*	11	10	1x12bit	9	–	–	3	–	–	1	2*	1	–	2/2	–	2	–	1	–	1/8	–	–	–		TSSOP20
	N32G430K6L7		128	32	16	26		8	1*	20	14	1x12bit	10	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		LQFP32
	N32G430K8L7		128	64	16	26		8	1*	20	14	1x12bit	10	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		LQFP32
	N32G430C6L7		128	32	16	40		8	1	24	14	1x12bit	16	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		LQFP48
	N32G430C8L7		128	64	16	40		8	1	24	14	1x12bit	16	–	–	3	–	–	1	2	2	–	2/2	–	2	–	1	–	1/8	–	–	–		LQFP48
N32G432	N32G432K8L7		108	64	24	26	1.8V~3.6V、-40~+105°C	10	1	17	6	1x12bit	10	1x12bit	–	–	–	–	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–	DES/3DES、AES、SHA1/SHA224/SHA256、SM1、SM3、SM4、SM7、MD5、CRC16/CRC32、TRNG	LQFP32
	N32G432KBL7		108	128	32	26		10	1	17	6	1x12bit	10	1x12bit	–	–	–	–	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP32
	N32G432C8L7		108	64	24	38		10	1	24	6	1x12bit	10	1x12bit	–	–	–	–	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP48
	N32G432CBL7		108	128	32	38		10	1	24	6	1x12bit	10	1x12bit	–	–	–	–	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP48
	N32G432R8L7		108	64	24	52		10	1	28	12	1x12bit	16	1x12bit	–	–	–	–	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP64 (10mmx10mm)
	N32G432RBL7		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	–	–	–	–	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP64 (10mmx10mm)
N32G435	N32G435G8Q7		108	64	16	24		10	1	16	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	1/1	–	2	–	–	–	1/8	–	–	–		QFN28
	N32G435K8L7		108	64	16	26		10	1	17	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP32
	N32G435KBL7		108	128	32	26		10	1	17	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP32
	N32G435C8L7		108	64	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP48
	N32G435CBL7		108	128	32	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP48
	N32G435R8L7		108	64	24	52		10	1	28	12	1x12bit	16	1x12bit	2	2	–	20	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP64 (10mmx10mm)
	N32G435RBL7		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	2	2	–	20	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP64 (10mmx10mm)
	N32G435RBL7-1		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	2	2	–	20	–	3	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP64 (7mmx7mm)

注：

1. “*”表示非所有功能管脚都引出，具体参见数据手册的引脚复用定义。
2. N32G430F6S7和N32G430F8S7的Pin2/Pin3为OSC_IN/OSC_OUT；N32G430F6S7-1和N32G430F8S7-1的Pin2/Pin3为OSC32_IN/OSC32_OUT。

通用MCU

产品系列	产品型号	内核	主频 (MHz)	Flash (KB)	SRAM (KB)	I/O	工作电压、工作温度	定时器		PWM 通道数		ADC		DAC	OPAMP	COMP	LPRCNT	TSC	BEEPER	通信接口									DMA / 通道数	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	封装
								定时器	RTC	PWM	互补 PWM	个数×精度	通道数							USART/ISO7816	UART	LPUART	SPI/I²S	QSPI	I²C	USB Device	CAN	SDIO						
N32L43x	N32L433K8L7	ARM Cortex-M4F	108	64	24	26	1.8V~3.6V、-40~+105°C	10	1	17	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–	DES/3DES、AES、SHA1/SHA224/SHA256、SM1、SM3、SM4、SM7、MD5、CRC16/CRC32、TRNG	LQFP32
	N32L433KBL7		108	128	32	26		10	1	17	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–		LQFP32
	N32L436C8L7		108	64	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	Y	15	–	3	2	1	2/2	–	2	1	1	–	1/8	4x20	–	–		LQFP48
	N32L436CBL7		108	128	32	38		10	1	24	6	1x12bit	10	1x12bit	2	2	Y	15	–	3	2	1	2/2	–	2	1	1	–	1/8	4x20	–	–		LQFP48
	N32L436R8L7		108	64	24	52		10	1	28	12	1x12bit	16	1x12bit	2	2	Y	20	–	3	2	1	2/2	–	2	1	1	–	1/8	4x34 8x30	–	–		LQFP64 (10mmx10mm)
	N32L436RBL7		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	2	2	Y	20	–	3	2	1	2/2	–	2	1	1	–	1/8	4x34 8x30	–	–		LQFP64 (10mmx10mm)
	N32L436MBL7		108	128	32	64		10	1	28	12	1x12bit	16	1x12bit	2	2	Y	24	–	3	2	1	2/2	–	2	1	1	–	1/8	4x44 8x40	–	–		LQFP80
N32L40x	N32L401C8L7		64	64	16	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	–	–	–	1/8	–	–	–		LQFP48
	N32L401CBQ7		64	128	16	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	–	–	–	1/8	–	–	–		QFN48
	N32L403K8Q7		64	64	16	26		10	1	17	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–		QFN32
	N32L403KBQ7		64	128	24	26		10	1	17	6	1x12bit	10	1x12bit	2	2	–	8	–	2	2	1	2/2	–	2	1	1	–	1/8	–	–	–		QFN32
	N32L406C8Q7		64	64	16	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	1	1	–	1/8	4x20	–	–		QFN48
	N32L406CBQ7		64	128	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	1	1	–	1/8	4x20	–	–		QFN48
	N32L406CBL7		64	128	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	–	15	–	3	2	1	2/2	–	2	1	1	–	1/8	4x20	–	–		LQFP48
	N32L406R8Q7		64	64	16	52		10	1	28	12	1x12bit	16	1x12bit	2	2	–	20	–	3	2	1	2/2	–	2	1	1	–	1/8	4x34 8x30	–	–		QFN64
	N32L406RBL7		64	128	24	52		10	1	28	12	1x12bit	16	1x12bit	2	2	–	20	–	3	2	1	2/2	–	2	1	1	–	1/8	4x34 8x30	–	–		LQFP64 (10mmx10mm)
	N32L406MBL7		64	128	24	64		10	1	28	12	1x12bit	16	1x12bit	2	2	–	24	–	3	2	1	2/2	–	2	1	1	–	1/8	4x44 8x40	–	–		LQFP80

注：1[1]:Only Single Wire　Y[2]:Only LCD Mode　“-”表示不支持

通用MCU

产品系列	产品型号	内核	主频(MHz)	Flash (KB)	SRAM (KB)	I/O	工作电压、工作温度	定时器		PWM通道数		ADC		DAC	OPAMP	COMP	LPRCNT	TSC	BEEPER	通信接口									DMA / 通道数	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	封装
								定时器	RTC	PWM	互补 PWM	个数x精度	通道数							USART/ISO7816	UART	LPUART	SPI/I²S	QSPI	I²C	USB Device	CAN	SDIO						
N32G020	N32G020G7QI	ARM Cortex-M0	80	128	21	25	1.8V~5.5V、-40~+85°C	5	1	8	3	1x12bit	12	1x10bit	–	1	–	–	–	1	2	–	1/–	1	2	–	–	–	1/8	–	–	–	AES/DES/3DES、RSA/ECC、SHA1/224/256/384/512、TRNG、CRC16	QFN32
	N32G020K8QI		80	256	21	30		5	1	8	3	1x12bit	12	1x10bit	–	1	–	–	–	1	2	–	2/–	1	2	1	–	–	1/8	–	–	–		QFN48
N32G030	N32G030F6U7		48	32	8	16	1.8V~5.5V/-40~+105°C	5	1	11	3	1x12bit	7	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–	CRC16/CRC32	UFQFPN20
	N32G030F6S7		48	32	8	16		5	1	11	3	1x12bit	9	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		TSSOP20
	N32G030K6Q7		48	32	8	28		5	1	14	6	1x12bit	10	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		QFN32 (5mmx5mm)
	N32G030K6Q7-1		48	32	8	28		5	1	14	6	1x12bit	10	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		QFN32 (4mmx4mm)
	N32G030K6L7		48	32	8	26		5	1	14	6	1x12bit	10	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		LQFP32
	N32G030K8L7		48	64	8	26		5	1	14	6	1x12bit	10	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		LQFP32
	N32G030C8L7		48	64	8	40		5	1	14	6	1x12bit	12	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		LQFP48
	N32G030C8T7		48	64	8	40		5	1	14	6	1x12bit	12	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		TQFP48
N32G031x6	N32G031F6U7		48	32	8	16		5	1	11	3	1x12bit	7	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–	CRC16/CRC32	UFQFPN20
	N32G031F6S7		48	32	8	16		5	1	11	3	1x12bit	9	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		TSSOP20
	N32G031K6Q7		48	32	8	28		5	1	14	6	1x12bit	10	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		QFN32 (5mmx5mm)
	N32G031K6Q7-1		48	32	8	28		5	1	14	6	1x12bit	10	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		QFN32 (4mmx4mm)
	N32G031K6L7		48	32	8	26		5	1	14	6	1x12bit	10	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		LQFP32
N32G031x8	N32G031F8U7		48	64	8	16		5	1	11	3	1x12bit	7	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–	CRC16/CRC32	UFQFPN20
	N32G031F8S7		48	64	8	16		5	1	11	3	1x12bit	9	–	1	1	–	–	1	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		TSSOP20
	N32G031K8Q7		48	64	8	28		5	1	14	6	1x12bit	10	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		QFN32 (5mmx5mm)
	N32G031K8Q7-1		48	64	8	28		5	1	14	6	1x12bit	10	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		QFN32 (4mmx4mm)
	N32G031K8L7		48	64	8	26		5	1	14	6	1x12bit	10	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		LQFP32
	N32G031C8L7		48	64	8	40		5	1	14	6	1x12bit	12	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		LQFP48
	N32G031C8T7		48	64	8	40		5	1	14	6	1x12bit	12	–	1	1	–	–	2	2	–	1	2/1	–	2	–	–	–	1/5	–	–	–		TQFP48
N32G032	N32G032F6U7		48	32	8	16		6	1	11	3	1x12bit	7	–	1	2	–	8	2	2	1	2	1/1	–	2	–	1	–	1/8	–	–	–	AES、SM4、CRC16/CRC32、TRNG	UFQFPN20
	N32G032F6S7		48	32	8	16		6	1	11	3	1x12bit	9	–	1	3	–	9	1	2	1	2	1/1	–	2	–	1	–	1/8	–	–	–		TSSOP20
	N32G032P6W7		48	32	8	21		6	1	15	3	1x12bit	10	–	1	3	–	11	2	2	2	2	2/1	–	2	–	1	–	1/8	–	–	–		WLCSP25
	N32G032P8W7		48	64	16	21		6	1	15	3	1x12bit	10	–	1	3	–	11	2	2	2	2	2/1	–	2	–	1	–	1/8	–	–	–		WLCSP25
	N32G032K6Q7		48	32	8	28		6	1	17	6	1x12bit	10	–	1	3	–	17	2	2	2	2	2/1	–	2	–	1	–	1/8	–	–	–		QFN32
	N32G032K6L7		48	32	8	26		6	1	17	6	1x12bit	10	–	1	3	–	15	2	2	2	2	3/2	–	2	–	1	–	1/8	–	–	–		LQFP32
	N32G032C8L7		48	64	16	40		6	1	17	6	1x12bit	10	–	1	3	–	20	2	2	2	2	3/1	–	2	–	1	–	1/8	–	–	–		LQFP48
	N32G032R8L7		48	64	16	56		6	1	17	6	1x12bit	16	–	1	3	–	24	2	2	2	2	3/1	–	2	–	1	–	1/8	–	–	–		LQFP64 (10mmx10mm)

注：1[1]:Only Single Wire　Y[2]:Only LCD Mode　“-”表示不支持

Bluetooth® 芯片

产品系列	产品型号	内核	主频 (MHz)	Flash (KB)	SRAM (KB)	I/O	工作电压、工作温度	定时器		PWM 通道数		ADC		DAC	OPAMP	COMP	LPRCNT	TSC	通信接口										DMA / 通道数	AMIC	IRC	BLE	DVP	Cryptographic algorithm	封装
								定时器	RTC	PWM	互补 PWM	个数x精度	通道数						USART/ISO7816	UART	LPUART	SPI/I²S	QSPI	I²C	USB Device	CAN	SDIO							
N32WB020	N32WB020GEQI	ARM Cortex-M0+M0	80	320	20	17	1.8V~5.5V -40~+85℃	5	1	4	1	1x12bit	6	–	–	–	–	–	–	2	–	1/0	–	2	1	–	–	1/8	–	–	BLE4.2	–	CRC16	QFN32
N32WB031	N32WB031KCQ6-1 (1)	ARM Cortex-M0	64	256	48	21	1.8V~3.6V -40~+85℃	4	1	8	6	1x10bit	8	–	–	–	–	–	2		1	2/2	–	1	–	–	–	1/5	1	1	BLE5.1	–	CRC16/32	QFN32
	N32WB031KEQ6-2 (1)		64	512	48	21	2.32V~3.6V -40~+85℃	4	1	8	6	1x10bit	8	–	–	–	–	–	2	–	1	2/2	–	1	–	–	–	1/5	1	1		–		
N32WB452	N32WB452CEQ6	ARM Cortex-M4F+M0	144	512	144	30	1.8V~3.6V -40~+85℃	8	1	23	6	2x12-bit	6	2x12-bit	–	–	–	6	3	2	–	3/2	–	2	1	2	2	2/16	–	–	BLE5.0	–	AES/DES/3DES/SHA/SM1/SM3/SM4/SM7/MD5	QFN48
	N32WB452REQ6		144	512	144	44		8	1	24	6	2x12-bit	11	2x12-bit	–	–	–	13	3	3	–	3/2	–	3	1	2	2	2/16	–	–		Y		QFN64
	N32WB452LEQ6		144	512	144	68		8	1	24	6	2x12-bit	15	2x12-bit	–	–	–	16	3	4	–	3/2	–	4	1	2	2	2/16	–	–		Y		QFN88

注：(1) “-2” 表示工作电压2.32-3.6V “-1”表示工作电压1.8-3.6V “·”表示支持 “-”表示不支持

超低功耗蓝牙芯片

产品型号	ROM (Kbytes)	RAM (Kbytes)	CPU核	最高主频(MHz)	遵循标准	工作电压、工作温度	GPIO	通信接口			32位TIMER	RTC	PWM	10位GPADC CH	灵敏度	发射功率	功耗			资质认证	封装
								UART	I²C	SPI							ShutDown	Sleep	Run (Typ)	Bluetooth SIG	
NZ8801	128	32	32位专用处理器	32	BLE 5.0	1.62V～3.6V -40°C～85°C	17	1	1	1	4	1	3	3	-94dBm	最大+3dBm	<0.1μA	<1μA	Rx:3.5mA@3.0V Tx:3.6mA@3.0V	BQB认证	QFN32 (4mm * 4mm)

5.8GHz高速射频芯片

产品型号	遵循标准	工作频率	工作温度	数据传输率	唤醒灵敏度	RF接收灵敏度	发射功率	功耗			
								待机	唤醒	接收	发送
NWF580	GB/T 208512-2007	5.73GHz～6.2GHz	-40°C～85°C	256Kbps/512Kbps	-83dBm	-80dBm@调制系数85%	-6.1dBm～8.4dBm	0.1μA	2μA	37mA	60mA@0dBm

非接读写芯片

产品型号	工作电压、工作温度	通信接口			ISO/IEC 14443-A/B	读卡类型	读写距离	接收工作电流	发射工作电流	低功耗检卡功能	接收工作电压	发射工作电压	封装
		UART	I²C	SPI									
NZ3801	2.5V～3.6V -25°C～85°C	1.2Mbps	3.4Mbps	10MHz	106kbps/212kbps/424kbps/848kbps	Type A, Type B	100mm	9.5mA	60mA/100mA (max)	-	2.2V~3.6V	2.2V~3.6V	QFN32
NZ3802	2.5V～3.6V -25°C～85°C	1.2Mbps	3.4Mbps	20MHz (max)	106kbps/212kbps/424kbps/848kbps	Type A, Type B	100mm	9.5mA	60mA/100mA (max)	·	2.2V~3.6V	2.2V~5V	QFN32

注:“·”表示支持 “-”表示不支持

封装尺寸

WLCSP



SOP8
4.8mm*3.8mm



DFN8
3mm*3mm/
3mm*2mm



TSSOP20
6.5mm*4.4mm



UFQFPN20
3mm*3mm



UQFN20
3mm*3mm



QFN20
3mm*3mm/
4mm*4mm



QFN28
4mm*4mm



QFN32
4mm*4mm/
5mm*5mm



QFN40
5mm*5mm



QFN48
6mm*6mm



QFN64
8mm*8mm



QFN88
10mm*10mm



LQFP32
7mm*7mm



LQFP48
7mm*7mm



TQFP48
7mm*7mm



LQFP64
7mm*7mm
10mm*10mm



LQFP80
12mm*12mm



LQFP100
14mm*14mm



LQFP128
14mm*14mm



MCU生态

开发板

·最小系统板



·全功能开发板

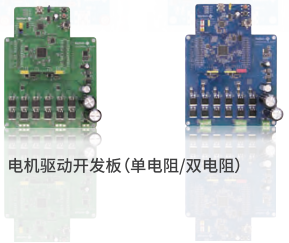


N32G457QE_EVB



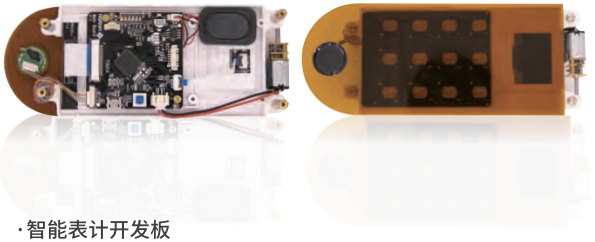
N32L436MBL7_EVB

·方案开发板



电机驱动开发板（单电阻/双电阻）

·智能门锁开发板



·智能表计开发板



·量产及调试工具



离线烧录器



在线调试工具

第三方合作伙伴

ARM　FreeRTOS　阿里云　腾讯云　RT-Thread

µC/OS RTOS and Stacks　IAR SYSTEMS　KEIL Tools by ARM　GCC　MaxWiz Technology

阿莫智能设备　HI-LO SYSTEMS　创芯工坊

GUQIE 佛山市谷茄智能科技　稀微电子　SUPERSPEED USB　21ic

以上排名不分先后，如对品牌展示存疑可联系我司