

PRODUCT SELECTION GUIDE

General MCU Security IC Wireless RF

DRIVEN BY INNOVATION



WeChat Public Accounts



Nations service accounts



Nations Tmall



MCU QQ group



Customer service

Nations Technologies Inc.

Address: Nations Tower, #109 Baoshen Road, Hi-tech Park North. Nanshan District, Shenzhen, 518057, P.R.China

Tel: +86-755-86309900

Email: info@nationstech.com

web: www.nationstech.com

Fax: +86-755-86169100

Post Code: 518057

Business Inquiries

Mobile: 18988772159

Email: sales@nationstech.com

Technical Support

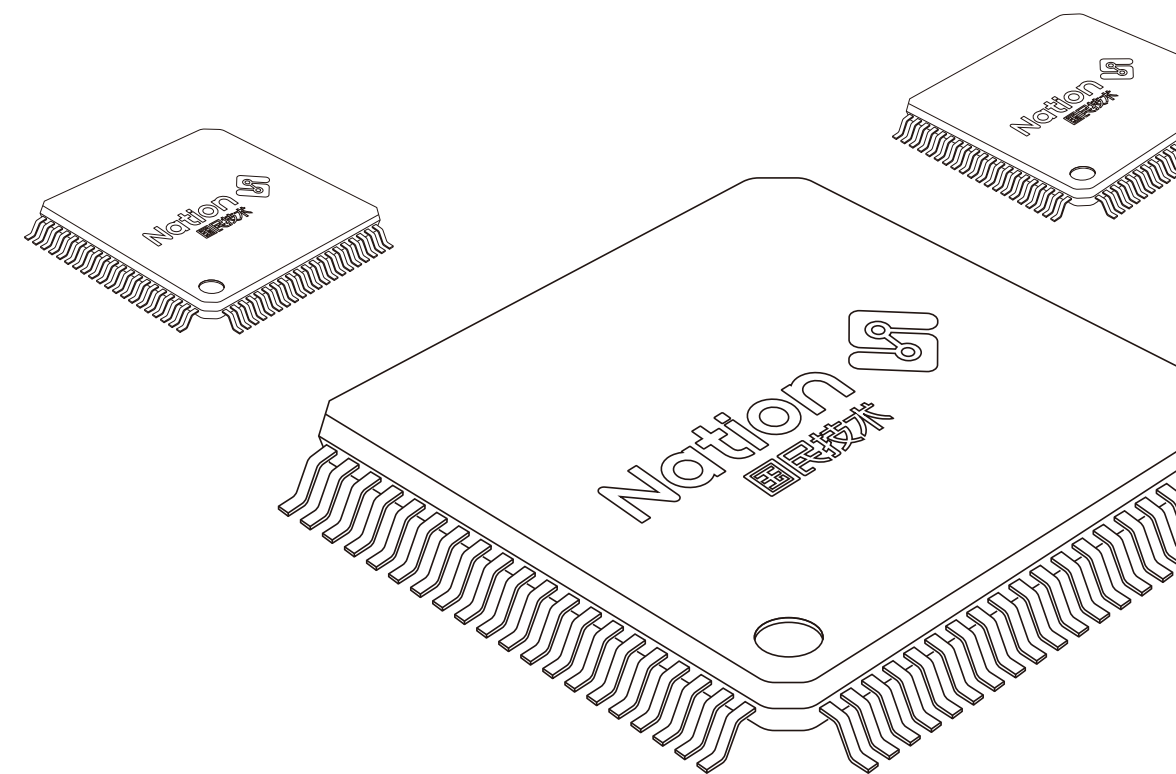
QQ : 710838632

Email: support@nationstech.com

Download

ftp://58.250.18.138 (China mainland)

ftp://45.40.51.140 (Oversea)



Nations Technologies Inc.

Feb 2023

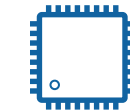
**Nations is committed to providing IC and solutions
for people,**
Making lives Safer, Simpler and Smarter



Established in 2000



Listed in 2010
Stock Code: 300077



Technology Field
Security, SoC, RF, Power

Qualifications and Honors

- Deputy Chief Supervisor unit of China Association for Public Companies
- National High-tech Enterprise
- Postdoctoral programme
- Founding member of “Zhongguancun Anxin Online Identity Authentication Alliance”, under the Ministry of Public Security
- Member of “Cybersecurity Association of China” under Office of the Central Cyberspace Affairs Commission”
- Leading enterprise in Shenzhen’s independent innovation industries
- Shenzhen R&D Center for Engineering and Technology
- Shenzhen R&D Center for Information Security IC Technology
- Shenzhen Key Laboratory

Service Capability

- The Globalization of R&D
- Localized technical service team
- Strategic partnerships with world-class wafer vendors

Technical Competence

- It is one of the integrated circuit design enterprises undertaking the national "909" special project of very large scale integrated circuit.
- “863 program”, “03 special project” and “core-high-basic product”
- Own more than 1,500 international and domestic patents, including more than 1,000 invention patents
- one of the “China Patent Gold Award” and 9 China Patent Excellence Awards .
- More than 60 technical standards: RCC national standard、the new generation trusted computing ISO / IEC international standard

Los Angeles

Beijing

Japan

Xi'an

Shanghai

Wuhan

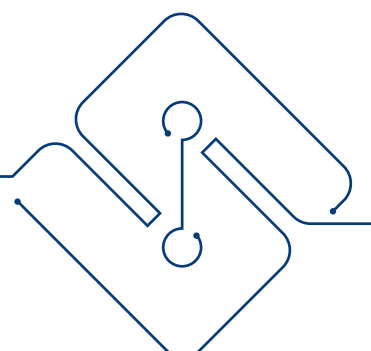
Chong qing

Shenzhen

Hongkong

Singapore

Nation



Product Matrix

WLCSP/SOP/DFN/TSSOP/QFN/LQFP
8-20-25-28-32-40-48-64-80-100-128PINS
100+PN



General MCUs



Low power consumption MCUs



RF Product



Security ICs

● N32A455
Cortex-M4F
512KB eFlash
144KB SRAM

N32G4FR
Cortex-M4F
512KB eFlash
144KB SRAM

N32G457
Cortex-M4F
512KB eFlash
144KB SRAM

N32G455
Cortex-M4F
512KB eFlash
144KB SRAM

N32G452
Cortex-M4F
512KB Flash
144KB SRAM

N32G032
Cortex-M0
64KB eFlash
16KB SRAM

N32G031
Cortex-M0
64KB eFlash
8KB SRAM

N32G030
Cortex-M0
64KB eFlash
8KB SRAM

N32G435
Cortex-M4F
128KB eFlash
32KB SRAM

N32G020
Cortex-M0
256KB eFlash
21KB SRAM

N32G432
Cortex-M4F
128KB eFlash
32KB SRAM

N32G430
Cortex-M4F
64KB eFlash
16KB SRAM

N32L40x
Cortex-M4F
128KB eFlash
24KB SRAM

N32L43x
Cortex-M4F
128KB eFlash
32KB SRAM

NWF580

NZ8801
32-bit
processor
128KB ROM
32KB SRAM

● N32WB031
Cortex-M0
512KB NOR Flash
48KB SRAM

● N32WB020
Cortex-M0
320KB eFlash
20KB SRAM

● N32WB452
Cortex-M4F
512KB eFlash
144KB SRAM

N32HUA
Cortex-M0
512KB eFlash
21KB SRAM

N32S033
Cortex-M0
512KB eFlash
33KB SRAM

● N32S032
Cortex-M0
320KB eFlash
21KB SRAM

NS3300

Z8D16R-2
Zi8051-SC
48KB eFlash
3.25KB SRAM

Z8IDA
Zi8051-SC
(96+32)KB
ROM/EEPROM
8KB SRAM

N32S003
Cortex-M0
64KB eFlash
6KB SRAM

Z32HCD2S
Cortex-M0
(320+80)KB ROM
/EEPROM
11KB SRAM

Z32HCD2
Cortex-M0
(256+40)KB ROM
/EEPROM
11KB SRAM

Z32HM
M4K RISC
1024KB eFlash
48KB SRAM

N32HUB
Cortex-M0
320KB eFlash
16KB SRAM

- Automotive-Grade MCUs
- M0+RF Co-Processor
- M4F+ RF Co-Processor

Others

32MHz

48MHz

50MHz

60MHz

64MHz

80MHz

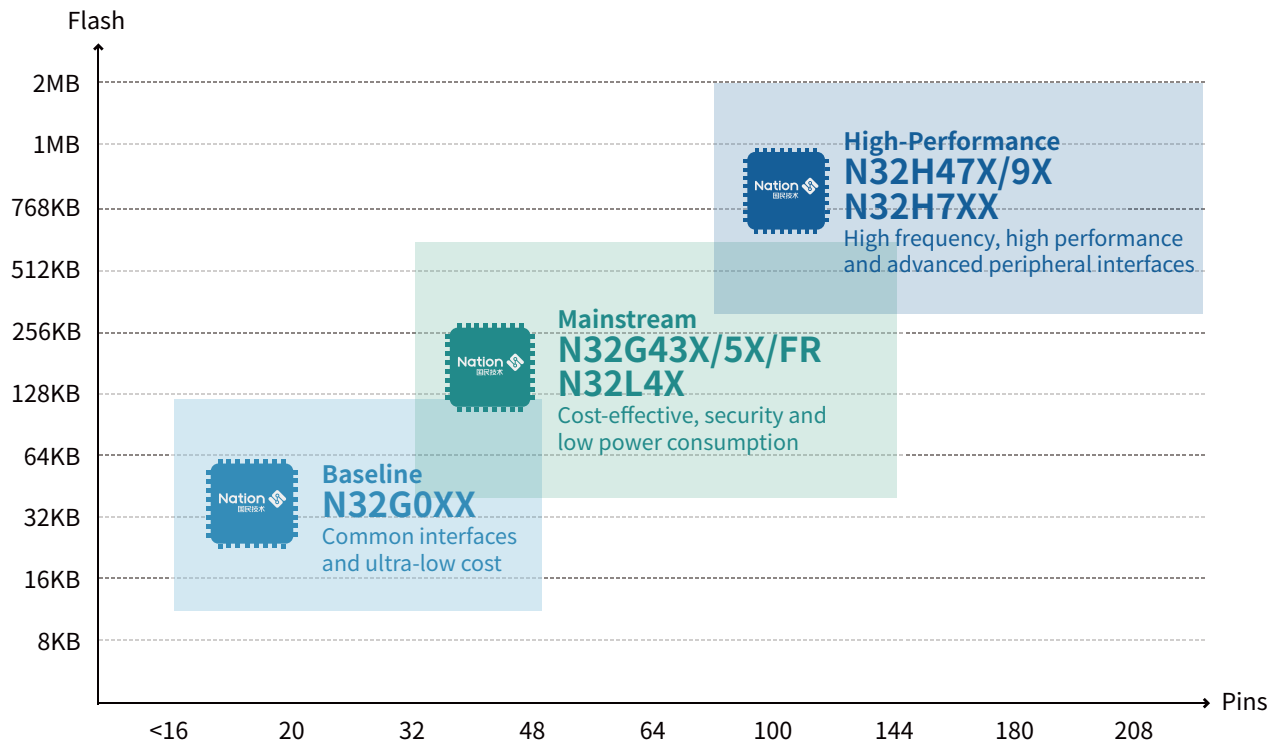
108MHz

128MHz

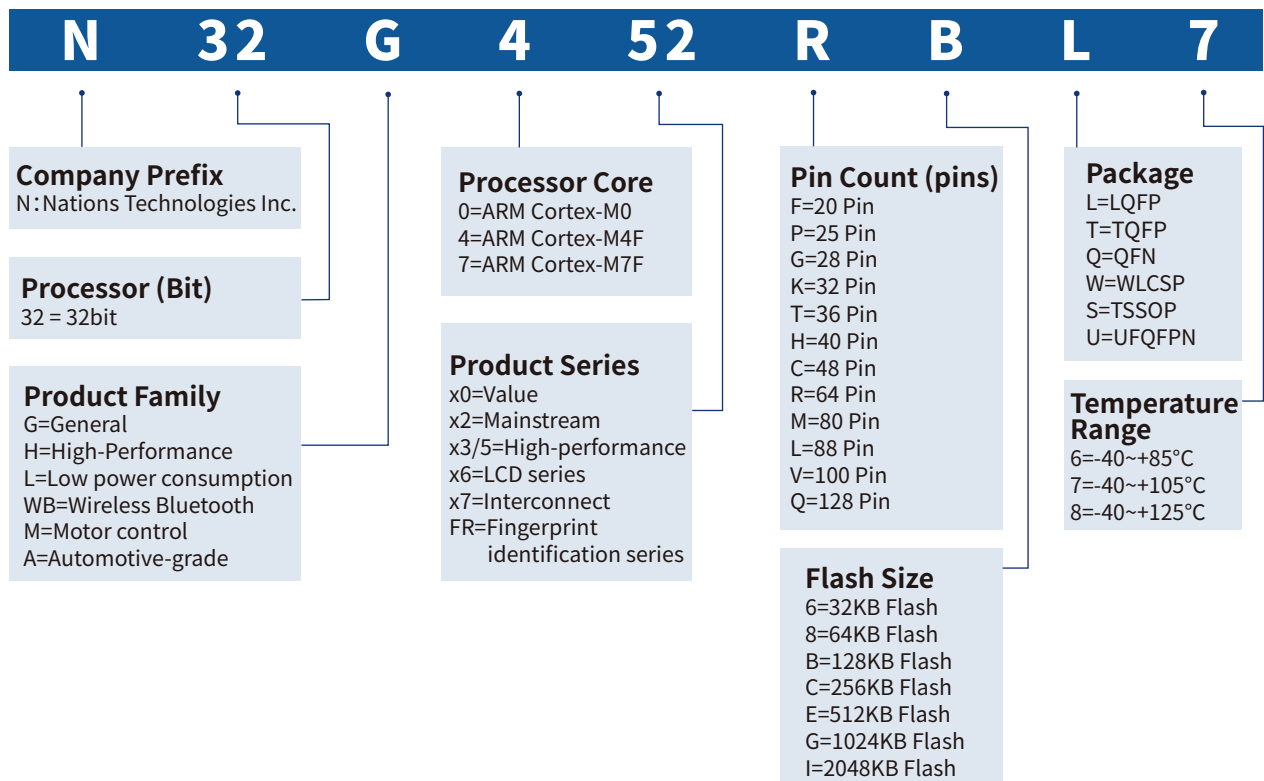
144MHz

Marketing Strategy Of MCUs

Sustainable innovation, providing full-scenario, wide-coverage, high-performance, security and reliability MCUs.



MCU Part Number Suffixes



General MCU																																			
Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply voltage/ Operating temperature	Timer		PWM		ADC		DAC	OPAMP	COMP	LPRCNT	BEEPER	Connectivity										DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package	SPQ(PCS)
								Timer	RTC	PWM	complementary PWM	Nb Resolution	PWM						USART/ISO7816	UART	LPUART	SP1/2S	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	250/Tray	
	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	250/Tray	
	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	250/Tray	
	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)	160/Tray	
	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)	160/Tray	
	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)	160/Tray	
	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	119/Tray	
	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	119/Tray	
	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	119/Tray	
	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	90/Tray	
	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	90/Tray	
	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	90/Tray	
	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	90/Tray	
N32G455	N32G455CBL7		144	128	80	37		8	1	23	6	4x12bit	16	2x12-bit	4	5	-	-	3	3	-	3/2	1 ⁽¹⁾	3	1	2	-	2/16	-	-	-		LQFP48	250/Tray	
	N32G455CCL7		144	256	144	37		8	1	23	6	4x12bit	16	2x12-bit	4	5	-	-	3	3	-	3/2	1 ⁽¹⁾	3	1	2	-	2/16	-	-	-		LQFP48	250/Tray	
	N32G455CEQ7		144	512	144	42		8	1	23	6	4x12bit	16	2x12-bit	4	7	-	-	3	4	-	3/2	1	3	-	2	1	2/16	-	-	-		QFN48	490/Tray	
	N32G455CEL7		144	512	144	42		8	1	23	6	4x12bit	16	2x12-bit	4	7	-	-	3	4	-	3/2	1	3	-	2	1	2/16	-	-	-		LQFP48	250/Tray	
	N32G455RBL7		144	128	80	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32G455RCL7		144	256	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32G455REL7		144	512	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32G455MBL7		144	128	80	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP80	119/Tray	
	N32G455MCL7		144	256	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP80	119/Tray	
	N32G455MEL7		144	512	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP80	119/Tray	
	N32G455VBL7		144	128	80	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP100	90/Tray	
	N32G455VCL7		144	256	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP100	90/Tray	
	N32G455VEL7		144	512	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP100	90/Tray	
N32G457	N32G457RCL7		144	256	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP64 (10mmx10mm)	160/Tray	
	N32G457REL7		144	512	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP64 (10mmx10mm)	160/Tray	
	N32G457MCL7		144	256	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP80	119/Tray	
	N32G457MEL7		144	512	144	65		8	1	24	12	4x12bit	33	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP80	119/Tray	
	N32G457VCL7		144	256	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP100	90/Tray	
	N32G457VEL7		144	512	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP100	90/Tray	
	N32G457QEL7		144	512	144	97		8	1	24	12	4x12bit	40	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	1	LQFP128	90/Tray	
N32G4FR	N32G4FRKCQ7		144	256	144	24		8	1	10	6	2x12bit	7	2x12-bit	-	-	-	-	1	3	-	2/1	1	3	1	1	-	2/16	-	-	-	QFN32	490/Tray		
	N32G4FRKEQ7		144	512	144	24		8	1	10	6	2x12bit	7	2x12-bit	-	-	-	-	1	3	-	2/1	1	3	1	1	-	2/16	-	-	-	QFN32	490/Tray		
	N32G4FRHCQ7		144	256	144	32		8	1	12	6	2x12bit	11	2x12-bit	-	-	-	-	2	4	-	3/2	1	4	1	2	-	2/16	-	-	1	QFN40	490/Tray		
	N32G4FRHEQ7		144	512	144	32		8	1	12	6	2x12bit	11	2x12-bit	-	-	-	-	2	4	-	3/2	1	4	1	2	-	2/16	-	-	1	QFN40	490/Tray		
	N32G4FRREL7		144	512	144	51		8	1	24	12	2x12bit	16	2x12-bit	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	LQFP64 (10mmx10mm)	160/Tray		
	N32G4FRMEL7		144	512	144	65		8	1	24	12	2x12bit	16	2x12-bit	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	LQFP80	119/Tray		

Note: “-” means “not support”

General MCU

Series	Commercial Product Code	Core	Memory				Supply voltage/ Operating temperature	Timer		PWM		ADC		DAC	OPAMP	COMP	LPRCNT	BEEPER	Connectivity										DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package	SPQ(Pcs)
			Flash (KB)	SRAM (KB)	I/O	USART /ISO7816		UART	LPUART	SPI/I ² S	QSPI	I ² C	USB Device						CAN	SDIO	complementary PWM	Nb Resolution	PWM	RTC	Timer										
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	490/Tray	
	N32G430F8Q7		128	64	16	16		8	1*	11	10	1x12bit	7	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-		UQFN20	490/Tray	
	N32G430G6Q7		128	32	16	24		8	1*	19	14	1x12bit	10	-	-	3	-	1	2*	2	-	2/2	-	2	-	1	-	1/8	-	-	-		QFN28	490/Tray	
	N32G430G8Q7		128	64	16	24		8	1*	19	14	1x12bit	10	-	-	3	-	1	2*	2	-	2/2	-	2	-	1	-	1/8	-	-	-		QFN28	490/Tray	
	N32G430K6Q7		128	32	16	26		8	1*	20	14	1x12bit	10	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		QFN32	490/Tray	
	N32G430K8Q7		128	64	16	26		8	1*	20	14	1x12bit	10	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		QFN32	490/Tray	
	N32G430C6Q7		128	32	16	40		8	1	24	14	1x12bit	16	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		QFN48	490/Tray	
	N32G430C8Q7		128	64	16	40		8	1	24	14	1x12bit	16	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		QFN48	490/Tray	
	N32G430F6S7		128	32	16	16		8	1*	11	10	1x12bit	9	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-		TSSOP20	70/Tube	
	N32G430F8S7		128	64	16	16		8	1*	11	10	1x12bit	9	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-		TSSOP20	70/Tube	
	N32G430F6S7-1		128	32	16	16		8	1*	11	10	1x12bit	9	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-		TSSOP20	70/Tube	
	N32G430F8S7-1		128	64	16	16		8	1*	11	10	1x12bit	9	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-		TSSOP20	70/Tube	
	N32G430K6L7		128	32	16	26		8	1*	20	14	1x12bit	10	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32G430K8L7		128	64	16	26		8	1*	20	14	1x12bit	10	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32G430C6L7		128	32	16	40		8	1	24	14	1x12bit	16	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		LQFP48	250/Tray	
	N32G430C8L7		128	64	16	40		8	1	24	14	1x12bit	16	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-		LQFP48	250/Tray	
N32G432	N32G432K8L7	Arm® Cortex®-M4F	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	250/Tray	
	N32G432KBL7		108	128	32	26		10	1	17	6	1x12bit	10	1x12bit	-	-	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32G432C8L7		108	64	24	38		10	1	24	6	1x12bit	10	1x12bit	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP48	250/Tray	
	N32G432CBL7		108	128	32	38		10	1	24	6	1x12bit	10	1x12bit	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP48	250/Tray	
	N32G432R8L7		108	64	24	52		10	1	28	6	1x12bit	16	1x12bit	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64 10mmx10mm	160/Tray	
	N32G432RBL7		108	128	32	52		10	1	28	6	1x12bit	16	1x12bit	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64 10mmx10mm	160/Tray	
N32G435	N32G435G8Q7	Arm® Cortex®-M4F	108	64	16	24	1.8V~3.6V, -40~+105°C	10	1	16	6	1x12bit	10	1x12bit	2	2	-	-	2	2	1	1/1	-	2	-	-	-	1/8	-	-	-	DES/3DES、AES、SHA1/SHA224/SHA256、SM1、SM3、SM4、SM7、MD5、CRC16/CRC32、TRNG	QFN28	490/Tray	
	N32G435GBQ7		108	128	32	24		10	1	16	6	1x12bit	10	1x12bit	2	2	-	-	2	2	1	1/1	-	2	-	-	-	1/8	-	-	-		QFN28	490/Tray	
	N32G435K8L7		108	64	16	26		10	1	17	6	1x12bit	10	1x12bit	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32G435KBL7		108	128	32	26		10	1	17	6	1x12bit	10	1x12bit	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32G435C8L7		108	64	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP48	250/Tray	
	N32G435CBL7		108	128	32	38		10	1	24	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP48	250/Tray	
	N32G435R8L7		108	64	24	52		10	1	28	12	1x12bit	16	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64 10mmx10mm	160/Tray	
	N32G435RBL7		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64 10mmx10mm	160/Tray	
	N32G435RBL7-1		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64 7mmx7mm	250/Tray	

- Note:
1. “-” means “not support”
 2. “*” Means that not all functional pins are led out. For details, please see the pin reuse definition in the data sheet.
 3. The Pin2/Pin3 of N32G430F6S7 and N32G430F8S7 are OSC_IN/OSC_OUT; The Pin2/Pin3 of N32G430F6S7-1 and N32G430F8S7-1 are OSC32_IN/OSC32_OUT.

General MCU																																			
Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply voltage/ Operating temperature	Timer		PWM		ADC		DAC	OPAMP	COMP	LPRCNT	BEEPER	Connectivity										DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package	SPQ(PCS)
								RTC	Timer	PWM	complementary PWM	Nb Resolution	PWM						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	-	-	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	250/Tray	
	N32L433KBL7		108	128	32	26		10	1	17	6	1x12bit	10	1x12bit	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32L436C8L7		108	64	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-		LQFP48	250/Tray	
	N32L436CBL7		108	128	32	38		10	1	24	6	1x12bit	10	1x12bit	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-		LQFP48	250/Tray	
	N32L436R8L7		108	64	24	52		10	1	28	12	1x12bit	16	1x12bit	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32L436RBL7		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32L436MBL7		108	128	32	64		10	1	28	12	1x12bit	16	1x12bit	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x44 8x40	-	-		LQFP80	119/Tray	
N32L40x	N32L403K8Q7	Arm® Cortex®-M4F	64	64	16	26	1.8V~3.6V、-40~-105°C	10	1	17	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	DES/3DES、AES、SHA1/SHA224/SHA256、SM1、SM3、SM4、SM7、MD5、CRC16/CRC32、TRNG	QFN32	490/Tray	
	N32L403KBQ7		64	128	24	26		10	1	17	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		QFN32	490/Tray	
	N32L406C8Q7		64	64	16	38		10	1	24	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-		QFN48	490/Tray	
	N32L406CBQ7		64	128	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-		QFN48	490/Tray	
	N32L406CBL7		64	128	24	38		10	1	24	6	1x12bit	10	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-		LQFP48	250/Tray	
	N32L406R8Q7		64	64	16	52		10	1	28	12	1x12bit	16	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		QFN64	260/Tray	
	N32L406RBL7		64	128	24	52		10	1	28	12	1x12bit	16	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32L406MBL7		64	128	24	64		10	1	28	12	1x12bit	16	1x12bit	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x44 8x40	-	-		LQFP80	119/Tray	

Note: “-” means “not support”

General MCU																																			
Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply voltage/ Operating temperature	Timer		PWM		ADC		DAC	OPAMP	COMP	LPRCNT	BEEPER	Connectivity										DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package	SPQ(Pcs)
								RTC	Timer	PWM	complementary PWM	Nb Resolution	PWM						USART/ISO7816	UART	LPUART	SPI/I ² S	QSPI	I ² C	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/ECG、SHA1/224/256/384/512、TRNG、CRC16	QFN32	490/ Tray
	N32G020K8QI		80	256	21	30		5	1	8	3	1x12bit	12	1x10bit	-	1	-	-	-	1	2	-	2/-	1	2	1	-	-	1/8	-	-	-		QFN48	490/ Tray
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	Tray:624/ Tray Tray:490/ Tray Tape:5000/Reel	
	N32G030F6S7		48	32	8	16		5	1	11	3	1x12bit	9	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TSSOP20	70/ Tube	
	N32G030K6Q7		48	32	8	28		5	1	14	6	1x12bit	10	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (5mmx5mm)	490/Tray	
	N32G030K6Q7-1		48	32	8	28		5	1	14	6	1x12bit	10	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (4mmx4mm)	490/Tray	
	N32G030K6L7		48	32	8	26		5	1	14	6	1x12bit	10	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32	250/Tray	
	N32G030K8L7		48	64	8	26		5	1	14	6	1x12bit	10	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32	250/Tray	
	N32G030C8L7		48	64	8	40		5	1	14	6	1x12bit	12	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP48	250/Tray	
	N32G030C8T7		48	64	8	40		5	1	14	6	1x12bit	12	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TQFP48	250/Tray	
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	Tray:624/ Tray Tray:490/ Tray Tape:5000/Reel	
	N32G031F6S7		48	32	8	16		5	1	11	3	1x12bit	9	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TSSOP20	70/ Tube	
	N32G031K6Q7		48	32	8	28		5	1	14	6	1x12bit	10	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (5mmx5mm)	490/Tray	
	N32G031K6Q7-1		48	32	8	28		5	1	14	6	1x12bit	10	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (4mmx4mm)	490/Tray	
	N32G031K6L7		48	32	8	26		5	1	14	6	1x12bit	10	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32	250/Tray	
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	Tray:624/ Tray Tray:490/ Tray Tape:5000/Reel	
	N32G031F8S7		48	64	8	16		5	1	11	3	1x12bit	9	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TSSOP20	70/ Tube	
	N32G031K8Q7		48	64	8	28		5	1	14	6	1x12bit	10	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (5mmx5mm)	490/Tube	
	N32G031K8Q7-1		48	64	8	28		5	1	14	6	1x12bit	10	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (4mmx4mm)	490/Tube	
	N32G031K8L7		48	64	8	26		5	1	14	6	1x12bit	10	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32	250/Tube	
	N32G031C8L7		48	64	8	40		5	1	14	6	1x12bit	12	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP48	250/Tube	
N32G032	N32G032F6U7		48	32	8	16		6	1	11	3	1x12bit	7	-	1	2	-	2	2	1	2	1/1	-	2	-	1	-	1/8	-	-	-	AES、SM4、 CRC16/CRC32、TRNG	UFQFPN20	Tray:624/ Tube Tray:490/ Tube Tape:5000/Reel	
	N32G032F6S7		48	32	8	16		6	1	11	3	1x12bit	9	-	1	3	-	1	2	1	2	1/1	-	2	-	1	-	1/8	-	-	-		TSSOP20	70/ Tube	
	N32G032P6W7		48	32	8	21		6	1	15	3	1x12bit	10	-	1	3	-	2	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-		WLCSP25	3000/Reel	
	N32G032P8W7		48	64	16	21		6	1	15	3	1x12bit	10	-	1	3	-	2	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-		WLCSP25	3000/Reel	
	N32G032K6Q7		48	32	8	28		6	1	17	6	1x12bit	10	-	1	3	-	2	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-		QFN32	490/Tube	
	N32G032K6L7		48	32	8	26		6	1	17	6	1x12bit	10	-	1	3	-	2	2	2	2	3/2	-	2	-	1	-	1/8	-	-	-		LQFP32	250/Tube	
	N32G032C8L7		48	64	16	40		6	1	17	6	1x12bit	10	-	1	3	-	2	2	2	2	3/1	-	2	-	1	-	1/8	-	-	-		LQFP48	250/Tube	
	N32G032R8L7		48	64	16	56		6	1	17	6	1x12bit	16	-	1	3	-	2	2	2	2	3/1	-	2	-	1	-	1/8	-	-	-		LQFP64 (10mmx10mm)	160/Tube	

Note: “-” means “not support”

General MCU

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply voltage/ Operating temperature	Timer		PWM		ADC		DAC	OPAMP	COMP	LPRCNT	BEEPER	Connectivity										DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package	SPQ(PCS)
								RTC	Timer	PWM	complementary PWM	Nb Resolution	PWM						USART/ISO7816	UART	LPUART	SP/I ² S	QSPI	I ² C	USB Device	CAN	SDIO								
N32A455	N32A455CEL8	Arm® Cortex®-M4F	144	512	144	37	1.8V~3.6V/ -40~+125°C	8	1	23	6	4x12bit	16	2x12-bit	4	5	-	-	3	3	-	3/2	1 ⁽¹⁾	3	-	2	-	2/16	-	-	-	DES/3DES-AES, SHA1/SHA224/SHA256, SM1, SM3, SM4, SM7, MD5, CRC16/CRC32, TRNG	LQFP48 7mmx7mm	250/Tray	
	N32A455REL8		144	512	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-		LQFP64 10mmx10mm	160/Tray	
	N32A455VEL8		144	512	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-		LQFP100 14mmx14mm	90/Tray	
	N32A455CEL7		144	512	144	37	1.8V~3.6V/ -40~+105°C	8	1	23	6	4x12bit	16	2x12-bit	4	5	-	-	3	3	-	3/2	1 ⁽¹⁾	3	-	2	-	2/16	-	-	-		LQFP48 7mmx7mm	250/Tray	
	N32A455REL7		144	512	144	51		8	1	24	12	4x12bit	22	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-		LQFP64 10mmx10mm	160/Tray	
	N32A455VEL7		144	512	144	80		8	1	24	12	4x12bit	38	2x12-bit	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-		LQFP100 14mmx14mm	90/Tray	

Note: “-” means “not support” (1) means single line

Security IC

Series	Commercial Product Code	CPU Core	Frequency	Flash (KB)	ROM (KB)	EEPROM (KB)	SRAM (KB)	Supply voltage/ Operating temperature I/O	Timer	Nb Resolution	ADC		PWM	RTC	Systick	Timer	Connectivity						ESD (HM)		Power consumption			Security Management	Cryptographic algorithm	Package	Certification				USB-IF	SPQ(PCS)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
											COMP	Capture					DAC	PMM	UART	SPI /FS	I ² C	USB Device	ISO14443	DMA / PWM	Contactless(KV)	Contact(KV)	Run(Typ)				Standby	PowerDown	Bank Card Test Center	Information Security Certification Center of China			China Information Technology Security Evaluation Center	FIPS 140-2 CAVP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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head	LCD	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816	ISO7816

Note: “.” means support “-” means “not support”

Bluetooth LE IC

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply voltage/ Operating temperature	Timer		PWM		ADC		DAC	COMP	OPAMP	LPRCNT	Connectivity										DMA / PWM	AMIC	IRC	BLE	DVP	Cryptographic algorithm	Package	SPQ(Pcs)
								RTC	Timer	PWM	complementary PWM	Nb Resolution	PWM					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°C	5	1	4	1	1x12bit	6	-	-	-	-	-	2	-	1/0	-	2	1	-	-	1/8	-	-	BLE4.2	-	CRC16	QFN32	490/Tray	
N32WB031	N32WB031KCQ6-1	Arm® Cortex®-M0	64	256	48	21	1.8V-3.6V -40~+85°C	4	1	8	6	1x10bit	8	-	-	-	-	2	-	1	2/2	-	1	-	-	-	1/5	1	1	-	-	CRC16/32	QFN32	490/Tray	
	N32WB031KEQ6-2		64	512	48	21	2.32V-3.6V -40~+85°C	4	1	8	6	1x10bit	8	-	-	-	-	2	-	1	2/2	-	1	-	-	-	1/5	1	1	-	-				
N32WB452	N32WB452CEQ6	Arm® Cortex®-M4F+M0	144	512	144	29	1.8V-3.6V -40~+85°C	8	1	23	6	2x12-bit	6	2x12-bit	-	-	-	3	2	-	3/2	-	2	1	2	-	2/16	-	-	BLE5.0	-	-	AES/DES/3DES/SHA/SM1/SM3/SM4/SM7/MD5	QFN48	490/Tray
	N32WB452REQ6		144	512	144	43		8	1	24	6	2x12-bit	11	2x12-bit	-	-	-	3	3	-	3/2	-	3	1	2	-	2/16	-	-		-	-		QFN64	348/Tray
	N32WB452LEQ6		144	512	144	65		8	1	24	6	2x12-bit	16	2x12-bit	-	-	-	3	4	-	3/2	-	4	1	2	1	2/16	-	-		1	-		QFN88	168/Tray

Note: “.” means support “-” means “not support”

Ultra Low Power Consumption Bluetooth IC

Series	ROM (Kbytes)	RAM (Kbytes)	CPU Core	Frequency (MHz)	Standard	Supply voltage	GPIO	Connectivity			32bit TIMER	RTC	PWM	10bit GPADC CH	Sensitivity	Transmit power	Power Consumption			Certification	Package	SPQ(Pcs)
								UART	I²C	SPI							ShutDown	Sleep	Run (Typ)	Bluetooth SIG		
NZ8801	128	32	32-bit processor	32	BLE 5.0	1.62V~3.6V -40°C~85°C	17	1	1	1	4	1	3	3	-94dBm	Max +3dBm	>0.1µA	<1µA	Rx:3.5mA@3.0V Tx:3.6mA@3.0V	BQB	QFN32 (4mm * 4mm)	490/Tray

5.8GHz high speed RF IC

SPQ(PCS)	490/ Tray	Power Consumption				Transmit power	RF Receiving sensitivity	Wake up sensitivity	Data transfer rate	Operating temperature	Frequency (MHz)	Standard	Series
		Send	Receive	Wake up	Standby								
		60mA@0dBm	37mA	2μA	0.1μA	-6.1dBm ~ 8.4dBm	-80dBm@ MI 85%	-83dBm	256Kbps/ 512Kbps	-40℃~85℃	5.73GHz ~ 6.2GHz	GB/T 208512-2007	NWF580

Note: “.” means support “-” means “not support”

MCU Ecosystem

Development Ecosystem

Selection

Product Selection Guide



Application Solution



Motor Drive Solution



Security Solution

(Storage encryption, Read/write protection, partition protection)

Technical support and communication

Nation 国民技术 Nations Service Account



Development&Debug

Manual Application Note Transplant Guide

Software Development Tools Debug Tools

IAR SYSTEMS KEIL Tech by ARM GCC NS-LINK J-Link ULink

Development Evaluation Board



Support RTOS

RTOS 阿里云 腾讯云 RT-Thread HC/OS

Online and Offline Sample Purchasing



Online & Offline support from AE+FAE



Mass Production

MP programming tool



HI-LO SYSTEMS

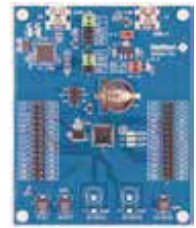


Security Differential FOTA



Development Board

Minimum System Board



Full Function Development Board



N32G457QE_EVB



N32L436MBL7_EVB

Solution Development Board



Motor Drive Development Board
(Single Resistance/Dual Resistance)

Smart Lock Development Board



Smart Meter Development Board



NS-Link Offline programmer



NS-LINK-Pro



NS-LINK-Simple

Provide sales service in <https://gmjs.tmall.com/> and other platforms.