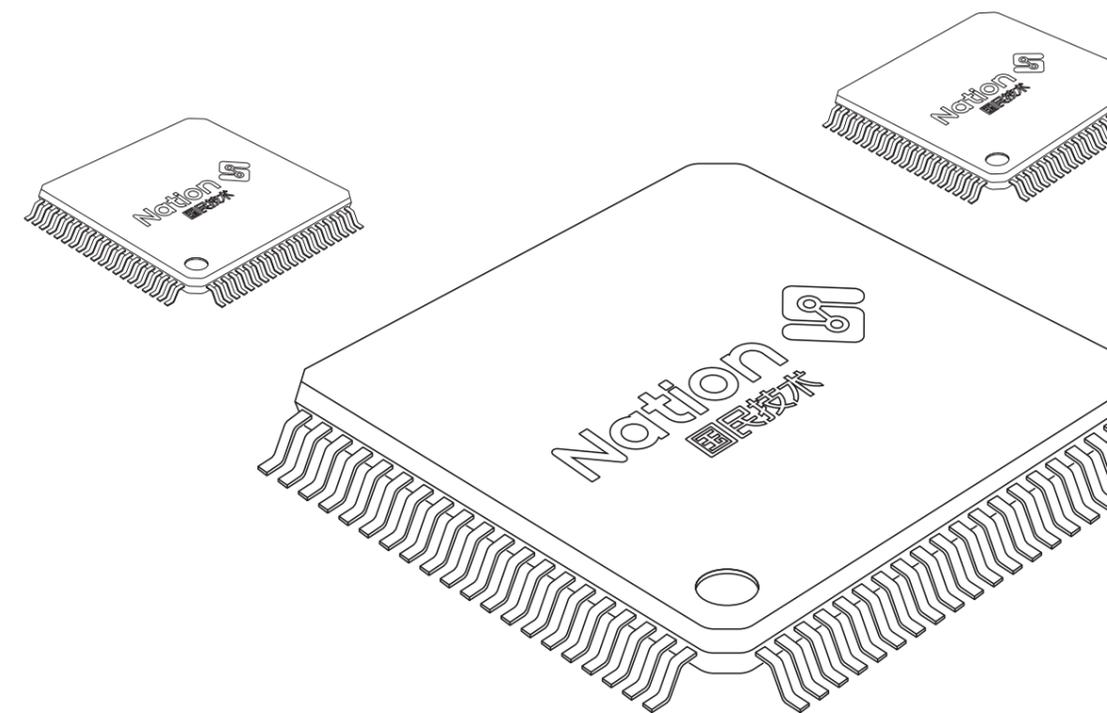


## PRODUCT SELECTION GUIDE

Security IC General MCU Wireless RF



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Nations MCU BBS

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## Nations Technologies is committed to providing IC and solutions for people,

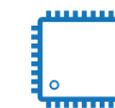
Making lives Safer, Simpler and Smarter



## Established in 2000



Listed in 2010  
Stock Code: 300077



Technology Field:  
Security, SoC, RF

### Qualifications and Honors

- Deputy Chairman member unit of China Association for Public Companies
- National High-tech Enterprise
- National-level postdoctoral programme
- 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

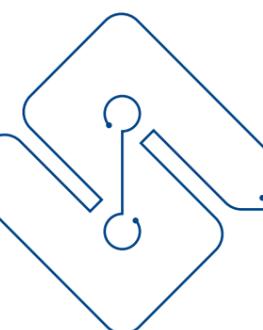
### Service Capability

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

### Technical Competence

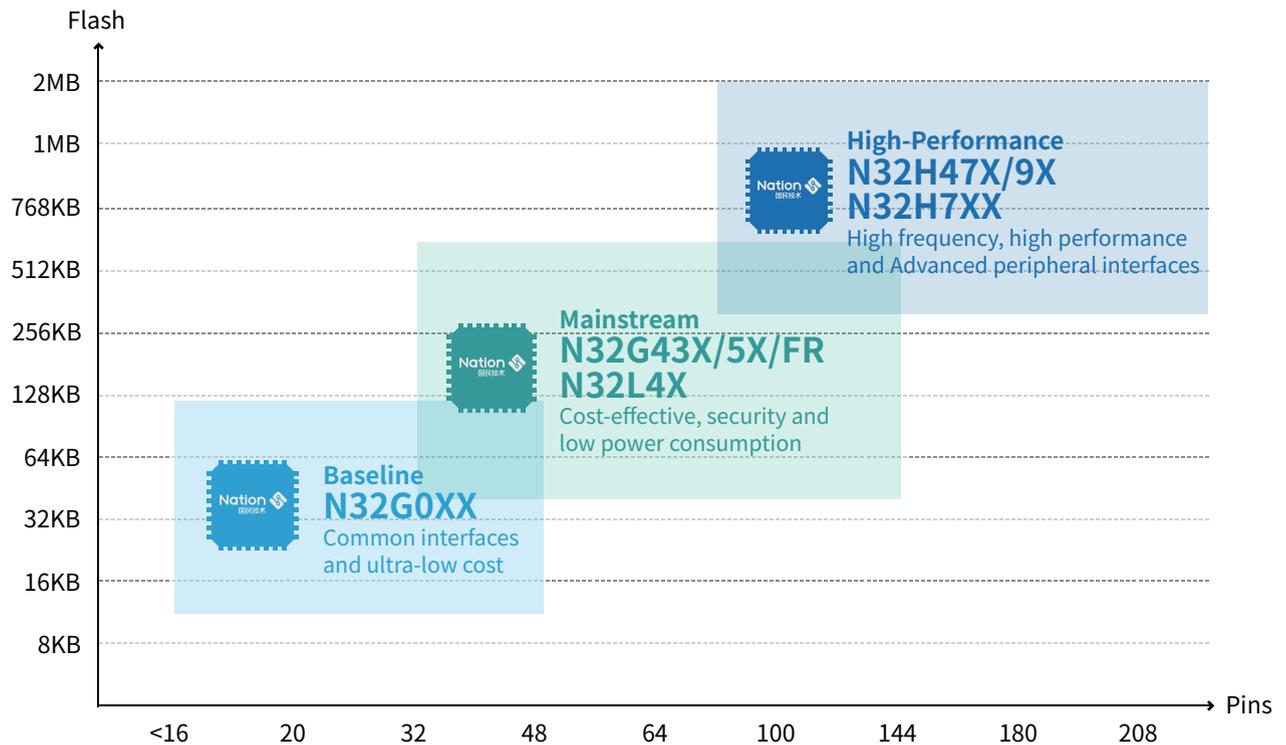
- Own more than 1,400 international and domestic patents, including more than 1,000 invention patents
- Won the "China Patent Gold Award" in 2017. Won 9 of China Patent Excellence Awards for several years
- Own 60 technical standards. RCC technology had become a national standard in May, 2017. Own the new generation trusted computing ISO / IEC international standard

# Nation

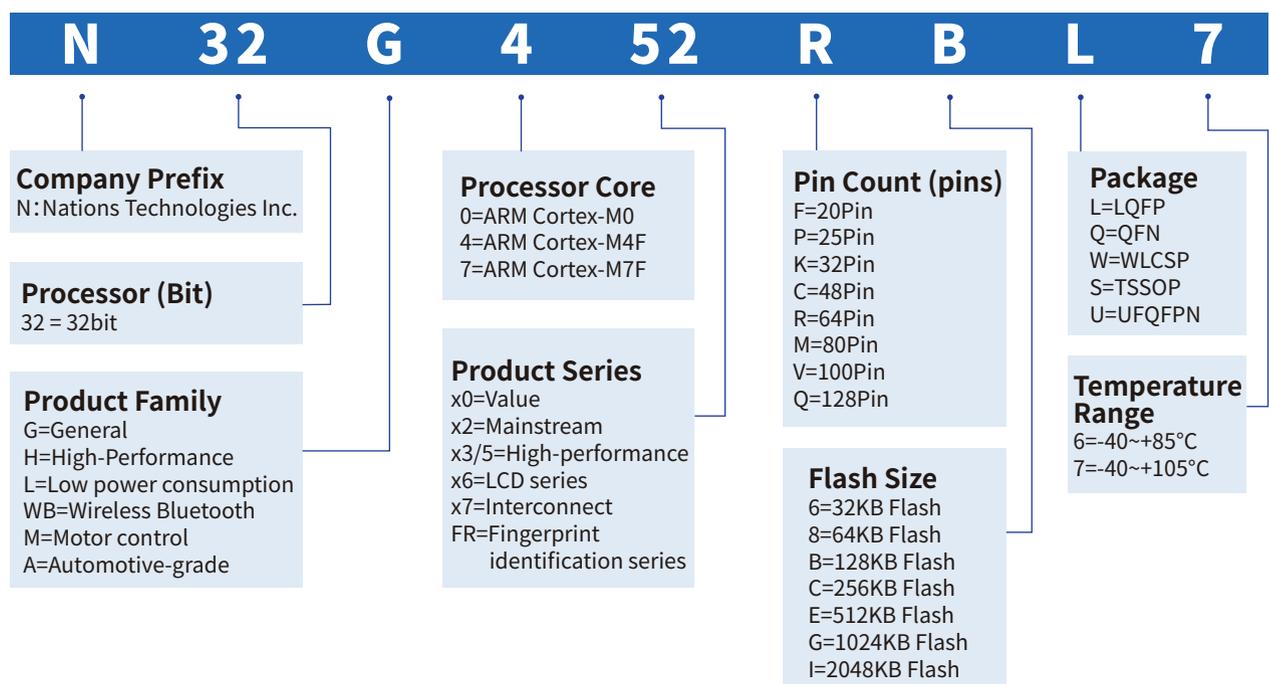


# Marketing Strategy Of MCUs

Sustainable Innovation, Providing More than **100** Product Models For Various Industries



## MCU Part Number Suffixes



# Security IC

Series	Commercial Product Code	CPU Core	Frequency (MHz)	Flash (KB)	ROM (KB)	EEPROM (KB)	SRAM (KB)	Supply voltage/ Operating temperature I/O	Timer			PWM	ADC		Capture	COMP	LCD	Three track magnetic head	Connectivity					ESD (HM)		Power consumption			Security Management	Cryptographic algorithm	Package	Certification									
									Timer	RTC	Stick		Nb Resolution	PWM					DMA / PWM	ISO7816	UART	SPI / I <sup>2</sup> S	I <sup>2</sup> C	USB Device	ISO14443	Contact (KV)	Contactless (KV)	PowerDown				Standby	Run (Typ)	Bank Card Test Center	NIST	USB-IF					
Multi-function Security IC	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	Level III	EAL5+	-	-	FIPS 140-2 CAVP	USB-IF Certification
	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	Level III	EAL4+	-	-	-	USB-IF Certification
	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	Level III	EAL4+	-	-	FIPS 140-2 CAVP	USB-IF Certification
	Z32HUA	ARM Cortex-M0	80	512	-	-	51	33	2.4V~5.5V/-25~+85°C	5	1	1	-	1x12bit	3	1	-	-	-	-	•	3	3/-	1	1	-	1/8	±4	-	1uA	130 uA	20 mA	•		QFN68	Level II	EAL4+	-	Terminal IC security assessment, personal payment terminal security assessment	FIPS 140-2 CAVP	USB-IF Certification
	Z32HUA	ARM Cortex-M0	80	512	-	-	51	20	2.4V~5.5V/-25~+85°C	5	1	1	-	-	-	-	-	-	-	-	-	1	1/-	1	1	-	1/8	±4	-	1uA	130 uA	20 mA	•		QFN32	Level II	EAL4+	-	-	FIPS 140-2 CAVP	USB-IF Certification
Z8IDA	Zi80 51-SC	32	-	96	32	8	-	2.7V~5.5V/-25~+85°C	-	-	-	-	1x10bit	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	50 uA	4mA	•	DES/3DES/SM4/SSF33, RSA/SM2, ECC, SHA1/SHA256/SM3	DFN8 SOP8	Level II	-	-	-	-	-	
OTP dynamic command security IC	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	•	SM3	Die	Level I	-	-	-	-	-
High-capacity security IC	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	Level II	EAL4+	EAL4+	-	-	FIPS 140-2 CAVP	-
Dual interface smart card security IC	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	Strip	Level II	-	EAL4+	PPBOC/010beh/Credit, QPBOC/QPBOC extension, COS detection of the third generation social security card (including physical characteristics)	FIPS 140-2 CAVP	-
	Z32HCD2S	ARM Cortex-M0	50	-	320	80	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	Strip	Level II	-	EAL4+	PPBOC/010beh/Credit, QPBOC/QPBOC extension, COS detection of the third generation social security card (including physical characteristics)	FIPS 140-2 CAVP	-

Note: “•” means support “-” 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	TSC	Connectivity										DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package
								Timer	RTC	PWM	complementary PWM	Nb Resolution	PWM						USART/ISO7816	UART	LPUART	SPI/I <sup>2</sup> S	QSPI	I <sup>2</sup> C	USB Device	CAN	SDIO							
																												2						
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	
	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	
	N32G432RBL7		108	128	32	52		10	1	28	12	1x12bit	16	1x12bit	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64	
N32G435	N32G435G8Q7		108	64	16	24		9	1	16	6	1x12bit	10	1x12bit	2	2	-	8	2	2	1	1/1	-	2	-	-	-	1/8	-	-	-		QFN28	
	N32G435K8L7		108	64	16	26		9	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		9	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		9	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		9	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		9	1	28	12	1x12bit	16	1x12bit	2	2	-	20	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64	
	N32G435RBL7		108	128	32	52		9	1	28	12	1x12bit	16	1x12bit	2	2	-	20	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP64	
N32L43X	N32L433K8L7		108	64	24	26		9	1	17	6	1x12bit	10	1x12bit	2	2	-	8	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	
	N32L433KBL7		108	128	32	26		9	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		9	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		9	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		9	1	28	12	1x12bit	16	1x12bit	2	2	Y	20	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64	
	N32L436RBL7		108	128	32	52		9	1	28	12	1x12bit	16	1x12bit	2	2	Y	20	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64	
	N32L436MBL7		108	128	32	64		9	1	28	12	1x12bit	16	1x12bit	2	2	Y	24	3	2	1	2/2	-	2	1	1	-	1/8	4x44 8x40	-	-		LQFP80	
	N32L401C8L7		64	64	16	38		9	1	24	6	1x12bit	10	1x12bit	2	2	-	15	3	2	1	2/2	-	2	-	-	-	1/8	-	-	-		LQFP48	
N32L401CBQ7	64		128	16	38	9		1	24	6	1x12bit	10	1x12bit	2	2	-	15	3	2	1	2/2	-	2	-	-	-	1/8	-	-	-	QFN48			
N32L403K8Q7	64		64	16	26	9		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	9		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	9		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	9		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	9		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	9		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	9		1	28	12	1x12bit	16	1x12bit	2	2	-	20	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-	LQFP64			
N32L406MBL7	64		128	24	64	9		1	28	12	1x12bit	16	1x12bit	2	2	-	24	3	2	1	2/2	-	2	1	1	-	1/8	4x44 8x40	-	-	LQFP80			

注: 1: Only Single Wire Y: Only LCD Mode "-" 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	TSC	Connectivity								DMA / PWM	SEGMENT LCD	ETH	DVP	Cryptographic algorithm	Package	
								Timer	RTC	PWM	Complementary PWM	Nb Resolution	PWM						USART/ISO7816	UART	LPUART	SPI/I <sup>2</sup> S	QSPI	I <sup>2</sup> 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/ECC, SHA1/24/256/384/512, 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	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	CRC16/CRC32	UFQFPN20
	N32G030F6S7		48	32	8	16		5	1	11	3	1x12bit	9	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TSSOP20
	N32G030K6Q7		48	32	8	28		5	1	14	6	1x12bit	10	-	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	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (4mmx4mm)
	N32G030K6L7		48	32	8	26		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32
	N32G030K8L7		48	64	8	26		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32
	N32G030C8L7		48	64	8	40		5	1	14	6	1x12bit	12	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP48
	N32G030C8T7		48	64	8	40		5	1	14	6	1x12bit	12	-	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	-	1	2/1	-	2	-	-	-	1/5	-	-	-	CRC16/CRC32	UFQFPN20
	N32G031F6S7		48	32	8	16		5	1	11	3	1x12bit	9	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TSSOP20
	N32G031K6Q7		48	32	8	28		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (5mmx5mm)
	N32G031K6Q7-1		48	32	8	28		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (4mmx4mm)
	N32G031K6L7		48	32	8	26		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32
N32G031x8	N32G031F8U7		48	64	8	16		5	1	11	3	1x12bit	7	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	CRC16/CRC32	UFQFPN20
	N32G031F8S7		48	64	8	16		5	1	11	3	1x12bit	9	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TSSOP20
	N32G031K8Q7		48	64	8	28		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (5mmx5mm)
	N32G031K8Q7-1		48	64	8	28		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		QFN32 (4mmx4mm)
	N32G031K8L7		48	64	8	26		5	1	14	6	1x12bit	10	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP32
	N32G031C8L7		48	64	8	40		5	1	14	6	1x12bit	12	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		LQFP48
	N32G031C8T7		48	64	8	40		5	1	14	6	1x12bit	12	-	1	1	-	-	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-		TQFP48
N32G032	N32G032F6U7		48	32	8	16		6	1	11	3	1x12bit	7	-	1	2	-	8	2	1	2	1/1	-	2	-	1	-	1/8	-	-	-	CRC16/CRC32, TRNG	UFQFPN20
	N32G032F6S7		48	32	8	16		6	1	11	3	1x12bit	9	-	1	3	-	9	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	2/1	-	2	-	1	-	1/8	-	-	-	WLCS25		
	N32G032P8W7	48	64	16	21	6		1	15	3	1x12bit	10	-	1	3	-	11	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-	WLCS25		
	N32G032K6Q7	48	32	8	28	6	1	17	6	1x12bit	10	-	1	3	-	17	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	3/2	-	2	-	1	-	1/8	-	-	-	LQFP32			
	N32G032C8L7	48	64	16	40	6	1	17	6	1x12bit	10	-	1	3	-	20	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	3/1	-	2	-	1	-	1/8	-	-	-	LQFP64			

注：1: Only Single Wire 2: Only LCD Mode “-” 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	OPAMP	COMP	LPRCNT	TSC	Connectivity										DMA / PWM	AMIC	IRC	BLE	DVP	Cryptographic algorithm	Package
								Timer	RTC	PWM	complementary PWM	Nb Resolution	PWM						USART/ISO7816	UART	LPUART	SPi/I <sup>2</sup> S	QSPI	I <sup>2</sup> C	USB Device	CAN	SDIO	BLE42							
N32WB020	N32WB020GEQ1	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	-	-	BLE42	-	CRC16	QFN32
N32WB031	N32WB031KCQ6-1 <sup>(1)</sup>	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	BLE51	-	CRC16/32	QFN32	
	N32WB031KEQ6-2 <sup>(1)</sup>	ARM Cortex-M0	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	BLE51	-	CRC16/32	QFN32	
N32WB452	N32WB452CEQ6	ARM Cortex-M4F+M0	144	512	144	30	1.8V~3.6V -40~+85°C	8	1	23	6	2x12-bit	6	2x12-bit	-	-	-	6	3	2	-	3/2	-	2	1	2	2	2/16	-	-	BLE50	-	AES/DES/3DES/SHA/SM1/SM3/SM4/SM7/MD5	QFN48	
	N32WB452REQ6	ARM Cortex-M4F+M0	144	512	144	44		8	1	24	6	2x12-bit	11	2x12-bit	-	-	-	13	3	3	-	3/2	-	3	1	2	2	2/16	-	-	BLE50	Y	AES/DES/3DES/SHA/SM1/SM3/SM4/SM7/MD5	QFN64	
	N32WB452LEQ6	ARM Cortex-M4F+M0	144	512	144	68		8	1	24	6	2x12-bit	15	2x12-bit	-	-	-	16	3	4	-	3/2	-	4	1	2	2	2/16	-	-	BLE50	Y	AES/DES/3DES/SHA/SM1/SM3/SM4/SM7/MD5	QFN88	

Note: (1) “-2” means the supply voltage 2.32-3.6V “-1” means the supply voltage 1.8-3.6V “.” 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
								UART	I <sup>2</sup> C	SPi							ShutDown	Sleep	Run (Typ)		
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 Certification	QFN32 (4mm * 4mm)

## 5.8GHz high speed RF IC

Series	Standard	Frequency (MHz)	Operating temperature	Data transfer rate	Wake up sensitivity	RF Receiving sensitivity	Transmit power	Power Consumption			
								Standby	Wake up	Receive	Send
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

## Contactless read/write IC

Series	Operating Temperature	Connectivity			ISO/IEC 14443-A/B	Type	Read/write range	Receiving current	Transmitting current	Low power consumption card detection function	Receiving voltage	Transmitting voltage	Package
		UART	I <sup>2</sup> C	SPi									
NZ3801	2.5V~3.6V -25°C~85°C	1.2Mbps	3.4Mbps	10MHz	212kbps/212kbps/424kbps/424kbps/848kbps	Type A, Type B	100mm	9.5mA	60mA/100mA (max)	.	2.2V~3.6V	2.2V~5V	QFN32
NZ3802	2.5V~3.6V -25°C~85°C	1.2Mbps	3.4Mbps	20MHz (max)	106kbps/106kbps/212kbps/212kbps/424kbps/424kbps/848kbps	Type A, Type B	100mm	9.5mA	60mA/100mA (max)	.	2.2V~3.6V	2.2V~5V	QFN32

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

## Package Options

<b>WLCSP</b> 3mm*3mm	<b>SOP8</b> 4.8mm*3.8mm	<b>DFN8</b> 3mm*3mm/ 3mm*2mm	<b>TSSOP20</b> 6.5mm*4.4mm
<b>UFQFPN20</b> 3mm*3mm	<b>QFN20</b> 3mm*3mm/ 4mm*4mm	<b>QFN32</b> 4mm*4mm/ 5mm*5mm	<b>QFN40</b> 5mm*5mm
<b>QFN48</b> 6mm*6mm	<b>QFN64</b> 8mm*8mm	<b>QFN88</b> 10mm*10mm	
<b>LQFP32</b> 7mm*7mm	<b>LQFP48</b> 7mm*7mm	<b>LQFP64</b> 10mm*10mm	<b>LQFP80</b> 12mm*12mm
<b>LQFP100</b> 14mm*14mm	<b>LQFP128</b> 14mm*14mm		

## MCU Ecosystem

### 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

### MP & Debug Tool



Offline Programmer

Online Debug Tool

### Third Party Partners



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