

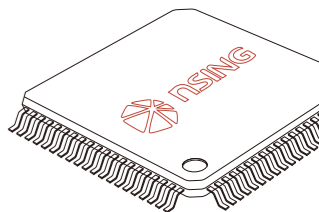
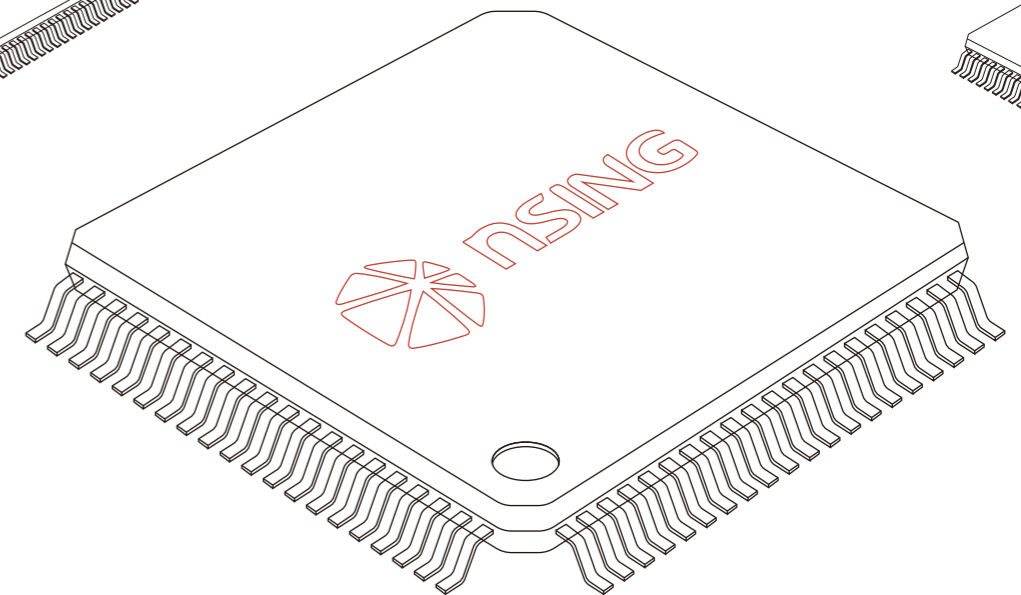
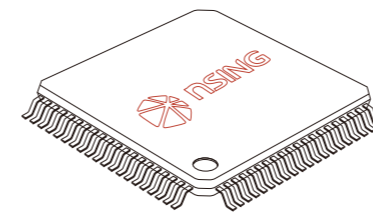


PRODUCT SELECTION GUIDE

 General MCU  Security IC  Bluetooth IC  Power IC



Beyond the Future



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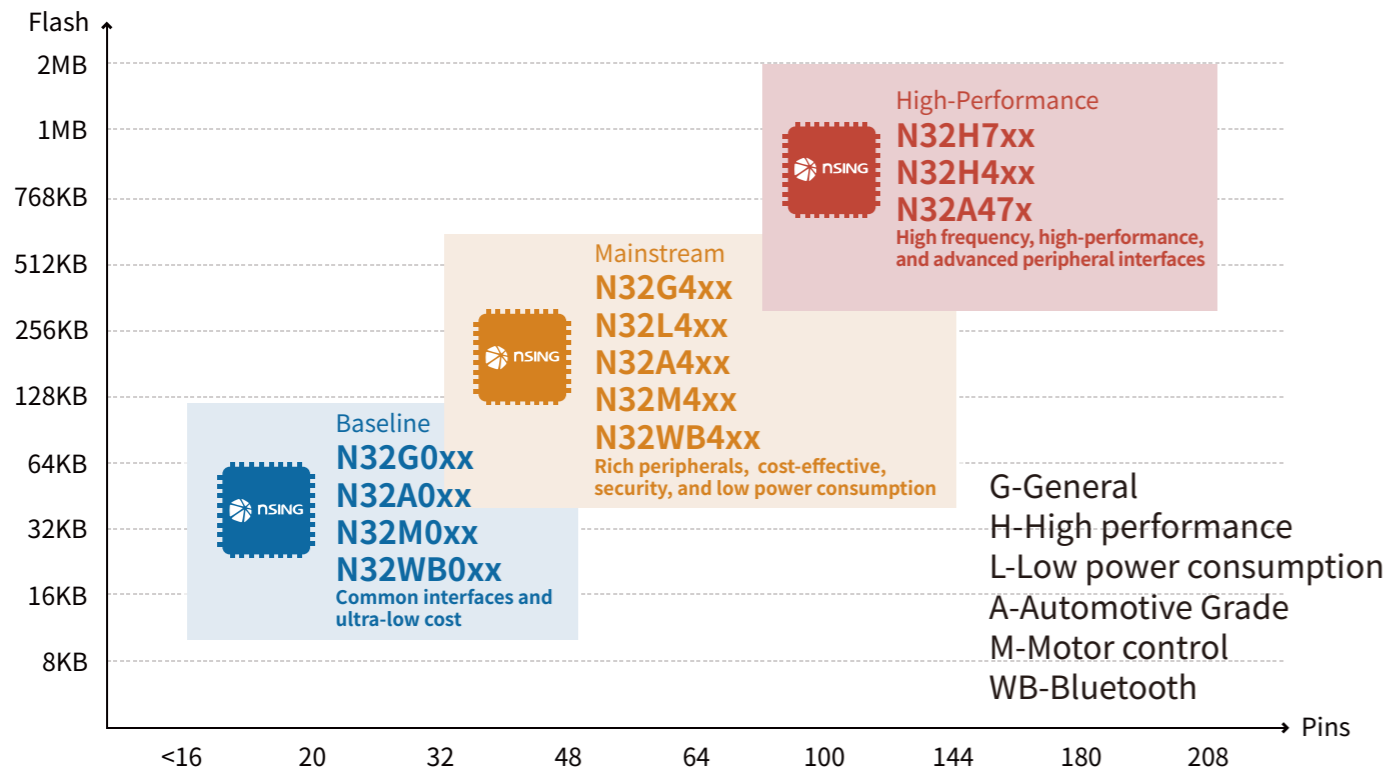
NSING Technologies Pte. Ltd

Apr. 2026

Marketing Strategy of MCU

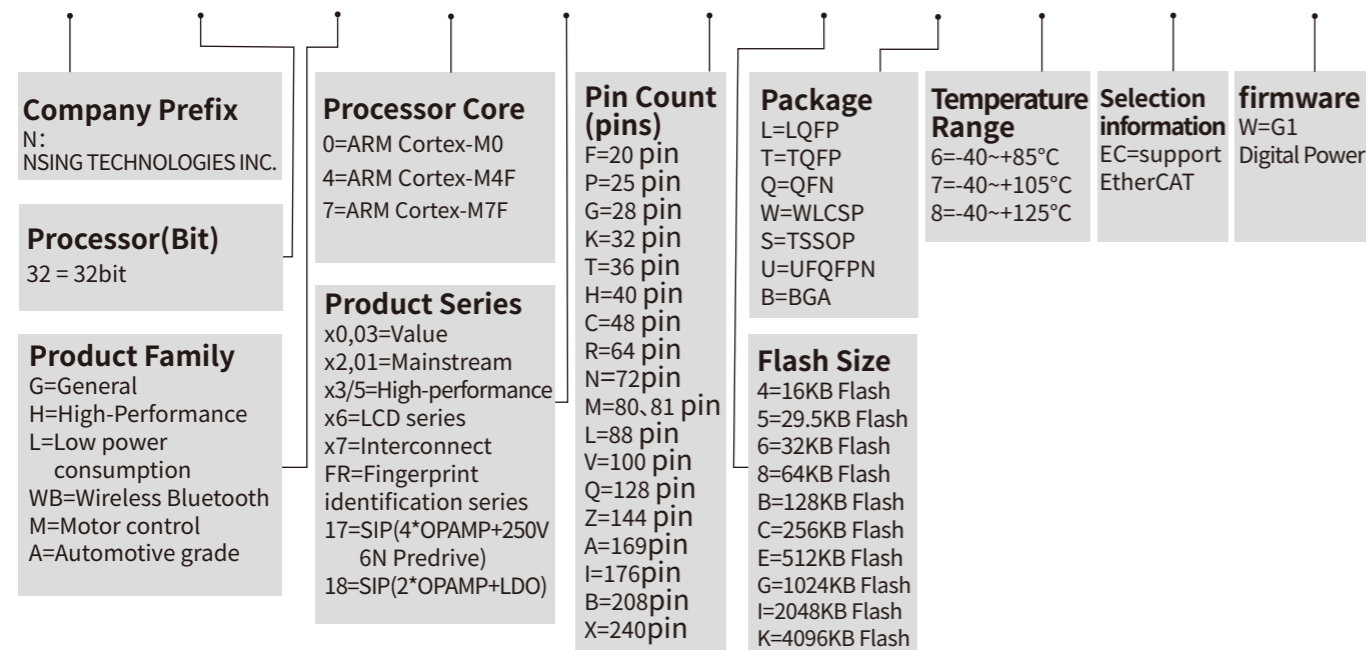
Roadmap

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

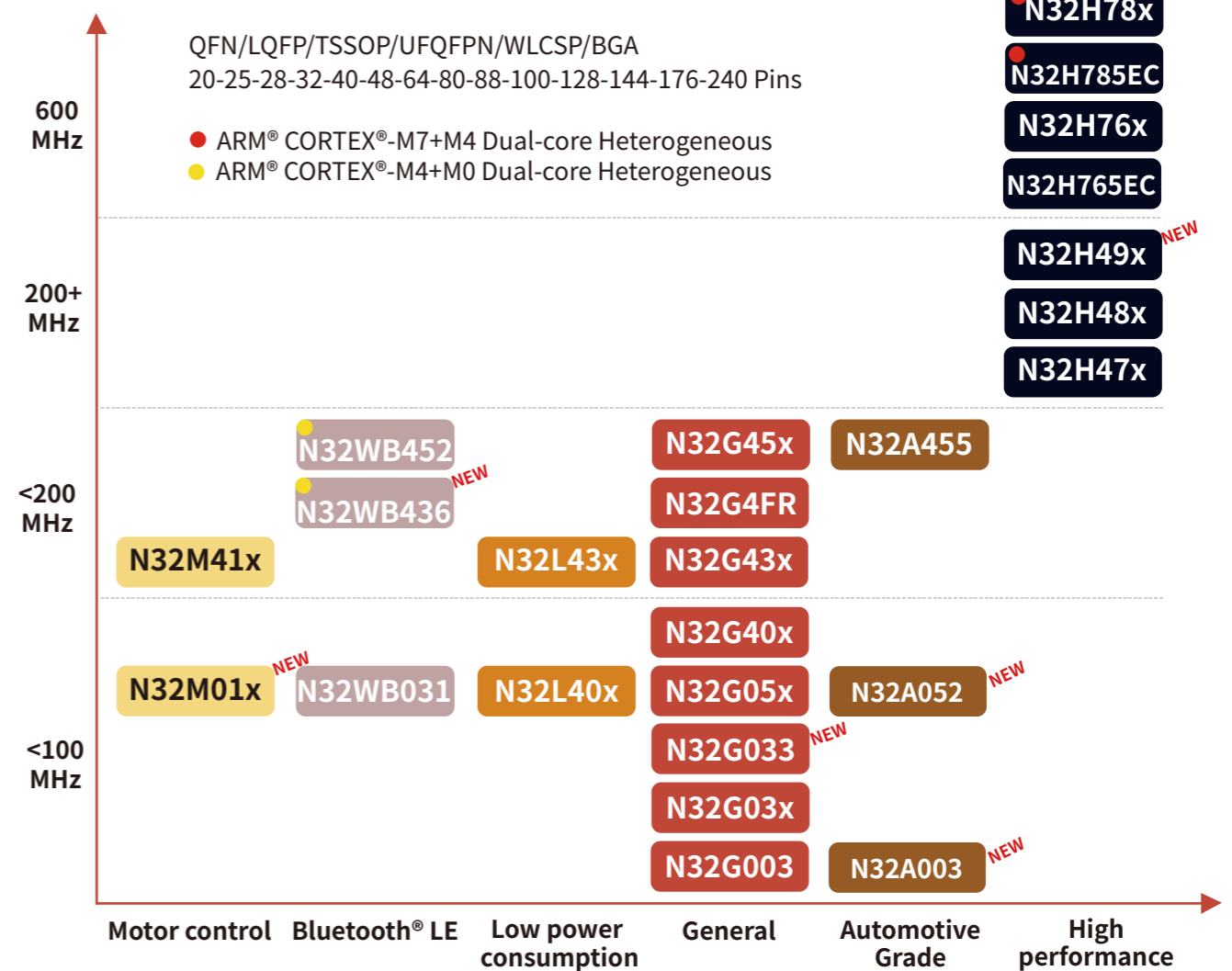


MCU Part Number Suffixes

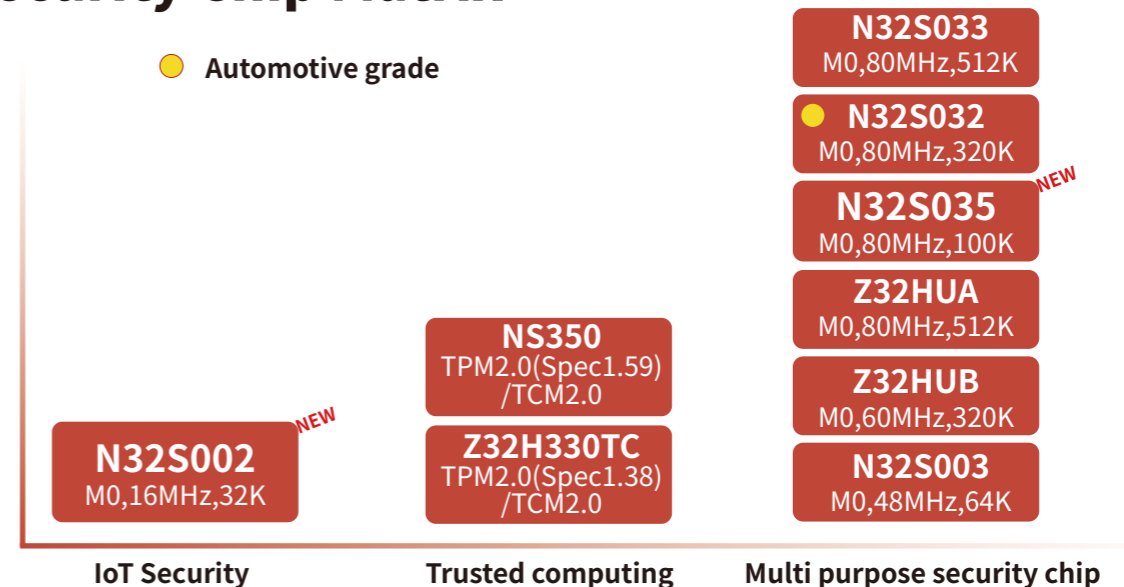
N 32 H 7 85 X K B 7 EC -W



Product Matrix



Security Chip Matrix



High Performance MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Coprorocessor			Timer			Memory Expansion Interface			Analog Interface			Connectivity						DMA/Channels	MDMA/Channels	EtherCAT		ETH 1000M	ETH 100M	Graphics Processing					Cryptographic Algorithm	Package	SPQ(PCs)
								DCCDC	Cordic	DSMU	FMAC	SHRTIM ⁽³⁾	xTimer ⁽²⁾	RTC	SDRAM	SDMMC	xSPI	FEMC	12-bit ADC Cell (CHs)	12-bit DAC ⁽²⁾ CHs	COMP	USART/SO/8/6/LIN	UART/LIN	LP/UART	SPI/Fs			PC	USB HS			CAN-FD	ESC	ESC	DVP	JPEG			
N32H787	N32H787XIB7	Arm® Cortex®-M7 & Arm® Cortex®-M4F	600&300	2048	1504	166	2.3V~3.6V/-40~+105°C	Yes	Yes	2	23	1	1	2	1	1	3*(53)	6	4	8	7	2	7/4	10	2	8	3/24	1/16	-	1	1	1	1	1	1	2	DES/3DES-AES-SHA1/SHA224/SHA256/SHA384/SHA512-SM4-CRC8/CRC16/CRC32-TRNG	BGA240+25	119/Tray
	N32H787XKB7		600&300	4096	1504	166		Yes	Yes	2	23	1	1	2	1	1	3*(53)	6	4	8	7	2	7/4	10	2	8	3/24	1/16	-	1	1	1	1	1	1	2	BGA240+25	119/Tray	
N32H785	N32H785XIB7		600&300	2048	1504	166		Yes	Yes	2	23	1	1	2	1	1	3*(53)	6	4	8	7	2	7/4	10	2	8	3/24	1/16	-	1	1	1	-	1	1	2	BGA240+25	119/Tray	
	N32H785XKB7		600&300	4096	1504	166		Yes	Yes	2	23	1	1	2	1	1	3*(53)	6	4	8	7	2	7/4	10	2	8	3/24	1/16	-	1	1	1	-	1	1	2	BGA240+25	119/Tray	
	N32H785IIB7		600&300	2048	1504	126		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	BGA176+25	168/Tray	
	N32H785IKB7		600&300	4096	1504	126		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	BGA176+25	168/Tray	
	N32H785IIL7		600&300	2048	1504	117		Yes	Yes	2	23	1	1	2	1	1	3*(36)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	LQFP176	40/Tray	
	N32H785IKL7		600&300	4096	1504	117		Yes	Yes	2	23	1	1	2	1	1	3*(36)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	LQFP176	40/Tray	
N32H785EC	N32H785XIB7EC		600&300	2048	1504	166		Yes	Yes	2	23	1	1	2	1	1	3*(53)	6	4	8	7	2	7/4	10	2	8	3/24	1/16	1	1	1	1	-	1	1	2	BGA240+25	119/Tray	
	N32H785XKB7EC		600&300	4096	1504	166		Yes	Yes	2	23	1	1	2	1	1	3*(53)	6	4	8	7	2	7/4	10	2	8	3/24	1/16	1	1	1	1	-	1	1	2	BGA240+25	119/Tray	
N32H765	N32H765IIB7		600	2048	1504	126		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	BGA176+25	168/Tray	
	N32H765IKB7		600	4096	1504	126		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	BGA176+25	168/Tray	
	N32H765IIL7		600	2048	1504	117		Yes	Yes	2	23	1	1	2	1	1	3*(36)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	LQFP176	40/Tray	
	N32H765IKL7		600	4096	1504	117		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	-	1	1	1	-	1	1	2	LQFP176	40/Tray	
	N32H765ZIL7		600	2048	1504	97		Yes	Yes	2	23	1	1	2	1	1	3*(28)	6	2	5	5	2	6/4	8	2	7	3/24	1/16	-	-	1	1	-	1	1	1	LQFP144	60/Tray	
	N32H765ZKL7		600	4096	1504	97		Yes	Yes	2	23	1	1	2	1	1	3*(28)	6	2	5	5	2	6/4	8	2	7	3/24	1/16	-	-	1	1	-	1	1	1	LQFP144	60/Tray	
N32H765EC	N32H765IIB7EC		600	2048	1504	126		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	1	1	1	1	-	1	1	2	BGA176+25	168/Tray	
	N32H765IKB7EC		600	4096	1504	126		Yes	Yes	2	23	1	1	2	1	1	3*(38)	6	4	7	6	2	6/4	8	2	8	3/24	1/16	1	1	1	1	-	1	1	2	BGA176+25	168/Tray	
N32H762	N32H762IIL7	600	2048	1504	138	No	Yes	2	23	1	1	2	1	1	3*(40)	6	4	7	7	2	7/4	10	2	8	3/24	1/16	-	1	1	1	-	1	1	2	LQFP176	40/Tray			
	N32H762IKL7	600	4096	1504	138	No	Yes	2	23	1	1	2	1	1	3*(40)	6	4	7	7	2	7/4	10	2	8	3/24	1/16	-	1	1	1	-	1	1	2	LQFP176	40/Tray			
N32H760	N32H760ZIL7	600	2048	1504	114	No	Yes	-	21	1	1	2	1	1	3*(28)	6	3	5	5	2	6/4	8	2	6	3/24	1/16	-	-	1	1	-	1	1	2	LQFP144	60/Tray			
	N32H760ZKL7	600	4096	1504	114	No	Yes	-	21	1	1	2	1	1	3*(28)	6	3	5	5	2	6/4	8	2	6	3/24	1/16	-	-	1	1	-	1	1	2	LQFP144	60/Tray			
	N32H760VIB7	600	2048	1504	82	No	Yes	-	21	1	1	2	1	1	3*(24)	6	2	3	5	2	5/4	8	2	6	3/24	1/16	-	-	1	1	-	1	1	2	BGA100	260/Tray			
	N32H760VKB7	600	4096	1504	82	No	Yes	-	21	1	1	2	1	1	3*(24)	6	2	3	5	2	5/4	8	2	6	3/24	1/16	-	-	1	1	-	1	1	2	BGA100	260/Tray			
	N32H760VIL7	600	2048	1504	82	No	Yes	-	21	1	1	2	1	1	3*(28)	6	2	3	5	2	5/4	8	2	6	3/24	1/16	-	-	1	1	-	1	1	2	LQFP100	90/Tray			
	N32H760VKL7	600	4096	1504	82	No	Yes	-	21	1	1	2	1	1	3*(28)	6	2	3	5	2	5/4	8	2	6	3/24	1/16	-	-	1	1	-	1	1	2	LQFP100	90/Tray			

Note: “-” means not support,(1)means include SDRAM, (2) two DACs output externally, others output internally, (3) means support 100ps high-precision timer, (4) the sum of ATIM,GTIM,BTIM and LPTIM.

High Performance MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/Operating Temperature	Coprocessor		Timer					PWM		ADC		DAC	Connectivity										DMA/Channels	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCs)
								Cordic	DSMU	ATIM	GTIM	BTIM	LP TIM	RTC	PWM	Complementary PWM	Nb*Resolution	Channels		USART/SO7816/LIN	UART/LIN	SPI/I ² S	I ² C	USB FS Device	USB HS OTG	CAN-FD	xSPI	SDIO	SDRAM						
N32H497	N32H497RGL7	Arm® Cortex®-M4F	240	1024	580	54	1.8V~3.6V/-40~+105°C	Yes	3	10	2	2	1	49	30	3x12bit	20	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	DES/3DES-AES, SHA1/SHA224/SHA256-SM3-SM4-MD5-CRCL6/CRCS2_TRNG	LQFP64 (10mm*10mm)	160/Tray
	N32H497RGB7		240	1024	580	52		Yes	3	10	2	2	1	49	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1		BGA64 (5mm*5mm)	-
	N32H497NGB7		240	1024	580	59		Yes	3	10	2	2	1	51	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1		BGA72 (4.40mm*3.76mm)	-
	N32H497MGB7		240	1024	580	67		Yes	3	10	2	2	1	51	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1		BGA81 (4.40mm*3.76mm)	-
	N32H497VGL7		240	1024	580	85		Yes	3	10	2	2	1	52	30	3x12bit	20	2x12bit	5	5	6/2	4	1	1	3	1	1	-	1	2/16	1	1		LQFP100 (14mm*14mm)	90/Tray
	N32H497VGL7C		240	1024	580	83		Yes	3	10	2	2	1	52	30	3x12bit	19	2x12bit	5	5	6/2	4	1	1	3	1	1	-	1	2/16	1	1		LQFP100-2 (14mm*14mm)	90/Tray
	N32H497ZGL7		240	1024	580	118		Yes	3	10	2	2	1	52	30	3x12bit	28	2x12bit	5	5	6/2	4	1	1	3	1	1	1	1	2/16	1	1		LQFP144 (20mm*20mm)	60/Tray
N32H493	N32H493MEB7		240	512	260	67		-	3	10	2	2	1	51	30	3x12bit	23	2x12bit	1	2	5/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA81 (4.40mm*3.76mm)	-	
	N32H493MGB7		240	1024	260	67		-	3	10	2	2	1	51	30	3x12bit	23	2x12bit	1	2	5/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA81 (4.40mm*3.76mm)	-	
	N32H493NEB7		240	512	260	59		-	3	10	2	2	1	51	30	3x12bit	23	2x12bit	1	2	6/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA72 (4.40mm*3.76mm)	-	
	N32H493NGB7		240	1024	260	59		-	3	10	2	2	1	51	30	3x12bit	23	2x12bit	1	2	6/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA72 (4.40mm*3.76mm)	-	
	N32H493REB7		240	512	260	52		-	3	10	2	2	1	49	30	3x12bit	23	2x12bit	1	2	6/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA64 (5mm*5mm)	-	
	N32H493RMB7		240	1024	260	52		-	3	10	2	2	1	49	30	3x12bit	23	2x12bit	1	2	6/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA64 (5mm*5mm)	-	
	N32H493RGB7		240	1024	260	52		-	3	10	2	2	1	49	30	3x12bit	23	2x12bit	1	2	6/0	4	-	-	-	1	-	-	-	2/16	-	-	BGA64 (5mm*5mm)	-	
N32H492	N32H492REL7		240	512	324	54		Yes	3	10	2	2	1	49	30	3x12bit	20	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	LQFP64 (10mm*10mm)	160/Tray	
	N32H492RGL7		240	1024	324	54		Yes	3	10	2	2	1	49	30	3x12bit	20	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	LQFP64 (10mm*10mm)	160/Tray	
	N32H492REB7		240	512	324	52		Yes	3	10	2	2	1	49	30	3x12bit	23	2x12bit	5	5	6/2	4	1	1	3	1	1	-	-	2/16	1	1	BGA64 (5mm*5mm)	-	
	N32H492RGB7		240	1024	324	52		Yes	3	10	2	2	1	49	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	BGA64 (5mm*5mm)	-	
	N32H492NEB7		240	512	324	59		Yes	3	10	2	2	1	51	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	BGA72 (4.40mm*3.76mm)	-	
	N32H492NGB7		240	1024	324	59		Yes	3	10	2	2	1	51	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	BGA72 (4.40mm*3.76mm)	-	
	N32H492MEB7		240	512	324	67		Yes	3	10	2	2	1	51	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	BGA81 (4.40mm*3.76mm)	-	
	N32H492MGB7	240	1024	324	67	Yes	3	10	2	2	1	51	30	3x12bit	23	2x12bit	5	5	5/2	4	1	1	3	1	1	-	-	2/16	1	1	BGA81 (4.40mm*3.76mm)	-			
	N32H492VEL7	240	512	324	85	Yes	3	10	2	2	1	52	30	3x12bit	20	2x12bit	5	5	6/2	4	1	1	3	1	1	-	1	2/16	1	1	LQFP100 (14mm*14mm)	90/Tray			
	N32H492VGL7	240	1024	324	85	Yes	3	10	2	2	1	52	30	3x12bit	20	2x12bit	5	5	6/2	4	1	1	3	1	1	-	1	2/16	1	1	LQFP100 (14mm*14mm)	90/Tray			
	N32H492ZEL7	240	512	324	118	Yes	3	10	2	2	1	52	30	3x12bit	28	2x12bit	5	5	6/2	4	1	1	3	1	1	1	1	2/16	1	1	LQFP144 (20mm*20mm)	60/Tray			
	N32H492ZGL7	240	1024	324	118	Yes	3	10	2	2	1	52	30	3x12bit	28	2x12bit	5	5	6/2	4	1	1	3	1	1	1	1	2/16	1	1	LQFP144 (20mm*20mm)	60/Tray			

Note: “-” means not support

High Performance MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/Operating Temperature	Timer			PWM		High Precision PWM		Analog Interface					Connectivity								DMA/Channels	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCs)	
								SHTIM ⁽²⁾	xTimer ⁽³⁾	RTC	PWM	Complementary PWM	PWM	Complementary PWM	12-bit ADC Chs (Chs)	12-bit DAC Chs	PGA	COMP	USART/SOT86/LIN	UART/LIN	SPI/FS	I2C	USB FS Device	USB HS OTG	CAN-FD	xSPI	SDIO							FEMC
N32H488	N32H488REL7	Arm® Cortex® M4F	240	512	196	54	1.8V~3.6V/-40~+105°C	-	18	1	47	30	12	12	4(26)	8	4	7	4	4	6/2	4	1	1	3	1	1	-	2/16	1	1	DES/3DES, AES, SHA1, SHA224, SHA256, SM3, SM4, MD5, CRC16/CRC32, TRNG	LQFP64 (10mm*10mm)	160/Tray
	N32H488VEL7		240	512	196	85		-	18	1	52	30	12	12	4(42)	8	4	7	4	4	6/2	4	1	1	3	1	1	1	2/16	1	1		LQFP100	90/Tray
	N32H488ZEL7		240	512	196	118		-	18	1	52	30	12	12	4(51)	8	4	7	4	4	6/2	4	1	1	3	1	1	1	2/16	1	1		LQFP144	60/Tray
N32H487	N32H487REL7		240	512	196	54		-	17	1	47	30	-	-	4(26)	2	-	-	4	4	5/2	4	1	1	3	1	1	-	2/16	1	1		LQFP64 (10mm*10mm)	160/Tray
	N32H487VEL7		240	512	196	85		-	17	1	52	30	-	-	4(26)	2	-	-	4	4	6/2	4	1	1	3	1	1	1	2/16	1	1		LQFP100	90/Tray
	N32H487ZEL7		240	512	196	118		-	17	1	52	30	-	-	4(42)	2	-	-	4	4	6/2	4	1	1	3	1	1	1	2/16	1	1		LQFP144	60/Tray
	N32H487ZGL7		240	1024	196	118		-	17	1	52	30	-	-	4(42)	2	-	-	4	4	6/2	4	1	1	3	1	1	1	2/16	1	1		LQFP144-1	60/Tray
N32H482	N32H482REL7		240	512	196	54		-	17	1	47	30	-	-	4(42)	2	-	-	4	4	5/2	4	1	1	2	1	1	-	2/16	-	-		LQFP64 (10mm*10mm)	160/Tray
	N32H482VEL7		240	512	196	85		-	17	1	52	30	-	-	4(51)	2	-	-	4	4	6/2	4	1	1	2	1	1	1	2/16	-	-		LQFP100	90/Tray
	N32H482VGL7		240	1024	196	85		-	17	1	52	30	-	-	4(51)	2	-	-	4	4	6/2	4	1	1	2	1	1	1	2/16	-	-		LQFP100	90/Tray
	N32H482ZEL7		240	512	196	118		-	17	1	52	30	-	-	4(51)	2	-	-	4	4	6/2	4	1	1	2	1	1	1	2/16	-	-		LQFP144	60/Tray
N32H481	N32H481REL7K		240	512	196	56		-	17	1	47	30	-	-	4(47)	8	-	-	3	4	6/2	4	-	1	-	-	-	2/16	1	1	LQFP64 (7mm*7mm)		250/Tray	
N32H474	N32H474CCU8		200	256	148	42		1	17	1	38	24	9	8	4(21)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-		UQFN48	260/Tray
	N32H474CEU8		200	512	196	42		1	17	1	38	24	9	8	4(21)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-		UQFN48	260/Tray
	N32H474CCL8		200	256	148	38		1	17	1	35	22	8	8	4(20)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-		LQFP48	250/Tray
	N32H474CEL8		200	512	196	38	1	17	1	35	22	8	8	4(20)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-	LQFP48	250/Tray		
	N32H474RCL8		200	256	148	52	1	17	1	46	30	12	12	4(26)	8	4	7	4	4	5/2	4	1	-	3	1	-	-	2/16	-	-	LQFP64 (10mm*10mm)	160/Tray		
	N32H474REL8		200	512	196	52	1	17	1	46	30	12	12	4(26)	8	4	7	4	4	5/2	4	1	-	3	1	-	-	2/16	-	-	LQFP64 (10mm*10mm)	160/Tray		
	N32H474MCL8		200	256	148	66	1	17	1	49	30	12	12	4(38)	8	4	7	4	4	6/2	4	1	-	3	1	-	-	2/16	-	-	LQFP80	119/Tray		
	N32H474MEL8		200	512	196	66	1	17	1	49	30	12	12	4(38)	8	4	7	4	4	6/2	4	1	-	3	1	-	-	2/16	-	-	LQFP80	119/Tray		
	N32H474VCL8		200	256	148	86	1	17	1	52	30	12	12	4(45)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP100	90/Tray		
	N32H474VEL8		200	512	196	86	1	17	1	52	30	12	12	4(45)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP100	90/Tray		
	N32H474QCL8		200	256	148	107	1	17	1	52	30	12	12	4(51)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP128	90/Tray		
	N32H474QEL8		200	512	196	107	1	17	1	52	30	12	12	4(51)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP128	90/Tray		
	N32H474CCU7		240	256	148	42	1	17	1	38	24	9	8	4(21)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-	UQFN48	260/Tray		
	N32H474CEU7		240	512	196	42	1	17	1	38	24	9	8	4(21)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-	UQFN48	260/Tray		
	N32H474CCL7		240	256	148	38	1	17	1	35	22	8	8	4(20)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-	LQFP48	250/Tray		
	N32H474CEL7		240	512	196	38	1	17	1	35	22	8	8	4(20)	8	4	7	4	4	5/2	4	1	-	3	1 ⁽¹⁾	-	-	2/16	-	-	LQFP48	250/Tray		
	N32H474RCL7	240	256	148	52	1	17	1	46	30	12	12	4(26)	8	4	7	4	4	5/2	4	1	-	3	1	-	-	2/16	-	-	LQFP64 (10mm*10mm)	160/Tray			
	N32H474REL7	240	512	196	52	1	17	1	46	30	12	12	4(26)	8	4	7	4	4	5/2	4	1	-	3	1	-	-	2/16	-	-	LQFP64 (10mm*10mm)	160/Tray			
	N32H474MCL7	240	256	148	66	1	17	1	49	30	12	12	4(38)	8	4	7	4	4	6/2	4	1	-	3	1	-	-	2/16	-	-	LQFP80	119/Tray			
	N32H474MEL7	240	512	196	66	1	17	1	49	30	12	12	4(38)	8	4	7	4	4	6/2	4	1	-	3	1	-	-	2/16	-	-	LQFP80	119/Tray			
N32H474VCL7	240	256	148	86	1	17	1	52	30	12	12	4(45)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP100	90/Tray				
N32H474VEL7	240	512	196	86	1	17	1	52	30	12	12	4(45)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP100	90/Tray				
N32H474QCL7	240	256	148	107	1	17	1	52	30	12	12	4(51)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP128	90/Tray				
N32H474QEL7	240	512	196	107	1	17	1	52	30	12	12	4(51)	8	4	7	4	4	6/2	4	1	-	3	1	-	1	2/16	-	-	LQFP128	90/Tray				

Note: “-” means not support , (1)means xSPI Only supports 4-wire, (2) means N32H474 supports 125ps high-precision timer, (3) the sum of ATIM,GTIM,BTIM and LPTIM.

High Performance MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		High Precision PWM		Analog Interface				Connectivity							DMA/Channels	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCS)				
								Timer	RTC	PWM	Complementary PWM	PWM	Complementary PWM	12-bit ADC Cell (Chs)	12-bit DAC Chs	PGA	COMP	USART/SO7816/LIN	UART/LIN	SPI/TFS	I2C	USB FS Device	USB HS OTG	CAN-FD							xSPI	SDIO	FEMC	
																																		17
N32H473	N32H473KCQ8	Arm® Cortex®-M4F	200	256	148	26	1.8V~3.6V/-40~+125°C	17	1	25	16	-	-	4	(13)	8	4	7	4	4	4/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	DES/3DES, AES, SHA1, SHA224, SHA256, SM3, SM4, MD5, CRC16, CRC32, TRNG	QFN32 (5mm*5mm)	490/Tray
	N32H473KEQ8		200	512	196	26		17	1	25	16	-	-	4	(13)	8	4	7	4	4	4/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-		QFN32 (5mm*5mm)	490/Tray
	N32H473CGQ8		200	1024	196	42		17	1	38	24	-	-	4	(21)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-		QFN48	260/Tray 4000/Reel
	N32H473CCU8		200	256	148	42		17	1	38	24	-	-	4	(21)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-		UQFN48	260/Tray 4000/Reel
	N32H473CEU8		200	512	196	42		17	1	38	24	-	-	4	(21)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-		UQFN48	260/Tray 4000/Reel
	N32H473CCL8		200	256	148	37		17	1	35	22	-	-	4	(20)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-		LQFP48	250/Tray
	N32H473CEL8		200	512	196	37		17	1	35	22	-	-	4	(20)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-		LQFP48	250/Tray
	N32H473RCL8		200	256	148	52		17	1	46	30	-	-	4	(26)	8	4	7	4	4	5/2	4	1	-	2	1	-	-	2/16	-	-		LQFP64 (10mm*10mm)	160/Tray
	N32H473REL8		200	512	196	52		17	1	46	30	-	-	4	(26)	8	4	7	4	4	5/2	4	1	-	2	1	-	-	2/16	-	-		LQFP64 (10mm*10mm)	160/Tray
	N32H473MCL8		200	256	148	66		17	1	49	30	-	-	4	(38)	8	4	7	4	4	6/2	4	1	-	2	1	-	-	2/16	-	-		LQFP80	119/Tray
	N32H473MEL8		200	512	196	66		17	1	49	30	-	-	4	(38)	8	4	7	4	4	6/2	4	1	-	2	1	-	-	2/16	-	-		LQFP80	119/Tray
	N32H473VCL8		200	256	148	86		17	1	52	30	-	-	4	(45)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-		LQFP100	90/Tray
	N32H473VEL8		200	512	196	86		17	1	52	30	-	-	4	(45)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-		LQFP100	90/Tray
	N32H473QCL8		200	256	148	107		17	1	52	30	-	-	4	(51)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-		LQFP128	90/Tray
	N32H473QEL8		200	512	196	107		17	1	52	30	-	-	4	(51)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-		LQFP128	90/Tray
	N32H473KCQ7		240	256	148	26	17	1	25	16	-	-	4	(13)	8	4	7	4	4	4/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	QFN32 (5mm*5mm)		490/Tray	
	N32H473KEQ7		240	512	196	26	17	1	25	16	-	-	4	(13)	8	4	7	4	4	4/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	QFN32 (5mm*5mm)		490/Tray	
	N32H473CCU7		240	256	148	42	17	1	38	24	-	-	4	(21)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	UQFN48		260/Tray 4000/Reel	
	N32H473CEU7		240	512	196	42	17	1	38	24	-	-	4	(21)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	UQFN48		260/Tray	
	N32H473CCL7		240	256	148	37	17	1	35	22	-	-	4	(20)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	LQFP48		250/Tray	
	N32H473CEL7		240	512	196	37	17	1	35	22	-	-	4	(20)	8	4	7	4	4	5/2	4	1	-	2	1 ⁽¹⁾	-	-	2/16	-	-	LQFP48		250/Tray	
	N32H473RCL7		240	256	148	52	17	1	46	30	-	-	4	(26)	8	4	7	4	4	5/2	4	1	-	2	1	-	-	2/16	-	-	LQFP64 (10mm*10mm)		160/Tray	
	N32H473REL7		240	512	196	52	17	1	46	30	-	-	4	(26)	8	4	7	4	4	5/2	4	1	-	2	1	-	-	2/16	-	-	LQFP64 (10mm*10mm)		160/Tray	
	N32H473MCL7		240	256	148	66	17	1	49	30	-	-	4	(38)	8	4	7	4	4	6/2	4	1	-	2	1	-	-	2/16	-	-	LQFP80		119/Tray	
	N32H473MEL7		240	512	196	66	17	1	49	30	-	-	4	(38)	8	4	7	4	4	6/2	4	1	-	2	1	-	-	2/16	-	-	LQFP80		119/Tray	
	N32H473VCL7		240	256	148	86	17	1	52	30	-	-	4	(45)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-	LQFP100		90/Tray	
	N32H473VEL7		240	512	196	86	17	1	52	30	-	-	4	(45)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-	LQFP100		90/Tray	
	N32H473QCL7		240	256	148	107	17	1	52	30	-	-	4	(51)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-	LQFP128		90/Tray	
	N32H473QEL7		240	512	196	107	17	1	52	30	-	-	4	(51)	8	4	7	4	4	6/2	4	1	-	2	1	-	1	2/16	-	-	LQFP128		90/Tray	

Note: "-" means not support , (1)means xSPI Only supports 4-wire

Automotive-Grade MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				L/PRCNT	BEEPER	Connectivity								DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCS)				
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/SOT16/LIN	UART/LIN	LPUART	SPI/I ² S	QSPI	I ² C	USB Device	CAN								SDIO			
N32A455	N32A455CEL8	Arm® Cortex®-M4F	72	512	144	37	1.8V~3.6V/ -40~+125°C	8	1	23	6	4(16)	2	4	5	-	-	3	3	-	3/2	1 ⁽¹⁾	3	-	2	-	2/16	-	-	-	DES/3DES, AES, SHA1, SHA224/	LQFP48 7mmx7mm	250/Tray			
	N32A455REL8		72	512	144	51		8	1	24	12	4(22)	2	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-	SHA256, SMI, SMI3, SMI4, SMI7	LQFP64 10mmx10mm	160/Tray			
	N32A455VEL8		72	512	144	80		8	1	24	12	4(38)	2	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-	MD5, CRC16/CRC32, TRNG	LQFP100 14mmx14mm	90/Tray			
	N32A455CEL7		144	512	144	37	1.8V~3.6V/ -40~+105°C	8	1	23	6	4(16)	2	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	4(22)	2	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	4(38)	2	4	7	-	-	3	4	-	3/2	1	4	-	2	1	2/16	-	-	-		LQFP100 14mmx14mm	90/Tray			
N32A003	N32A003F5Q8	Arm® Cortex®-M0	48	29.5	3	18	2.0-5.5V/ -40-125°C	3	-	14	14	1(9)	-	-	1	-	1	-	2 ⁽²⁾	-	1/0	-	1	-	-	-	-	-	-	-	-	-	CRCL6	QFN20 3mmx3mm	490/Tray 5000/Reel	
	N32A003F5Q7		48	29.5	3	18		3	-	14	14	1(9)	-	-	1	-	1	-	2 ⁽²⁾	-	1/0	-	1	-	-	-	-	-	-	-	-	-	-	QFN20 3mmx3mm	490/Tray 5000/Reel	
N32A052	N32A052KBR8	Arm® Cortex®-M0	64	128	16	29	2.0-5.5V/ -40-125°C	6	1	25	12	1(8)	1	-	3	-	1	-	5	-	3/0	-	2	-	1	-	1/5	4x11 2x13	-	-	-	-	-	CRCL6	QFN30 5mmx5mm	490/Tray 2500/Reel
	N32A052KBR7		64	128	16	29		6	1	25	12	1(8)	1	-	3	-	1	-	5	-	3/0	-	2	-	1	-	1/5	4x11 2x13	-	-	-	-	-	-	QFN30 5mmx5mm	490/Tray 2500/Reel

Note: "-" means not support , (1) means only single wire, (2) means not support "Lin"

General MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity							DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCs)		
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/ISO7816/LIN	UART/LIN	LPUART	SPI/FS	QSPI	I ² C	USB Device								CAN	SDIO
N32G457	N32G457RCL7	Arm® Cortex®-MAF	144	256	144	51	1.8V~3.6V/-40~+105°C	8	1	24	12	4(22)	2	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	1	1	DES/3DES, AES, SHA1/SHA224/SHA256, SM1, SM3, SM4, SM7, MD5, CRC16/CRC32, TRNG	LQFP64 (10mmx10mm)	160/Tray
	N32G457REL7		144	512	144	51		8	1	24	12	4(22)	2	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	4(33)	2	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	4(33)	2	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	4(38)	2	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	4(38)	2	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	4(40)	2	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	1	1		LQFP128	90/Tray
N32G455	N32G455TBQ7		144	128	80	26		8	1	23	6	4(11)	2	4	5	-	-	2	1	-	1/1	1 ⁽¹⁾	2	1	2	-	2/16	-	-	-	QFN36	490/Tray	
	N32G455CBL7		144	128	80	37		8	1	23	6	4(16)	2	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	4(16)	2	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	4(16)	2	4	7	-	-	3	4	-	3/2	1	3	-	2	1	2/16	-	-	-	QFN48	490/Tray	
	N32G455CEL7		144	512	144	37		8	1	23	6	4(16)	2	4	7	-	-	3	4	-	3/2	1	3	1	2	1	2/16	-	-	-	LQFP48	250/Tray	
	N32G455RBQ7		144	128	80	51		8	1	24	12	4(22)	2	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-	QFN64	260/Tray	
	N32G455RCQ7		144	256	144	51		8	1	24	12	4(22)	2	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-	QFN64	260/Tray	
	N32G455REQ7		144	512	144	51		8	1	24	12	4(22)	2	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-	QFN64	260/Tray	
	N32G455RBL7		144	128	80	51		8	1	24	12	4(22)	2	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	4(22)	2	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	4(22)	2	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	4(33)	2	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	4(33)	2	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	4(33)	2	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	4(38)	2	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	4(38)	2	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	4(38)	2	4	7	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-	LQFP100	90/Tray	

Note: "-" means not support, (1) means only single wire

General MCUs							Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity							DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCS)		
Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O		Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (Chs)	12-bit DAC Chs	OPAMP	COMP			USART/ISO7816/LIN	UART/LIN	LPUART	SPI/I ² S	QSPI	I ² C	USB Device								CAN	SDIO
N32G452	N32G452CBL7	Arm® Cortex®-M4F	144	128	80	37	8	1	23	6	2(10)	2	-	-	-	-	3	3	-	3/2	1 ^(b)	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	2(10)	2	-	-	-	-	3	3	-	3/2	1 ^(b)	3	1	2	-	2/16	-	-	-		LQFP48	250/Tray	
	N32G452CEL7		144	512	144	37	8	1	23	6	2(10)	2	-	-	-	-	3	3	-	3/2	1 ^(b)	3	1	2	-	2/16	-	-	-		LQFP48	250/Tray	
	N32G452RBL7		144	128	80	51	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32G452RCL7		144	256	144	51	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32G452REL7		144	512	144	51	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32G452MBL7		144	128	80	65	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP80	119/Tray	
	N32G452MCL7		144	256	144	65	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP80	119/Tray	
	N32G452MEL7		144	512	144	65	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP80	119/Tray	
	N32G452VCL7		144	256	144	80	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP100	90/Tray	
	N32G452VEL7		144	512	144	80	8	1	24	12	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP100	90/Tray	
	N32G452QCL7		144	256	144	97	8	1	24	12	2(18)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-		LQFP128	90/Tray	
N32G452QEL7	144	512	144	97	8	1	24	12	2(18)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	-	LQFP128	90/Tray				
N32G451	N32G451CBL7	Arm® Cortex®-M4F	144	128	48	37	8	1	23	6	3(13)	2	-	-	-	-	3	3	-	3/2	-	3	1	1	-	2/16	-	-	-	LQFP48	250/Tray		
	N32G451CCL7		144	256	96	37	8	1	23	6	3(13)	2	-	-	-	-	3	3	-	3/2	-	3	1	1	-	2/16	-	-	-	LQFP48	250/Tray		
	N32G451CEL7		144	512	96	37	8	1	23	6	3(13)	2	-	-	-	-	3	3	-	3/2	-	3	1	1	-	2/16	-	-	-	LQFP48	250/Tray		
	N32G451RBL7		144	128	48	51	8	1	24	12	3(19)	2	-	-	-	-	3	4	-	3/2	-	4	1	1	1	2/16	-	-	-	LQFP64 (10mmx10mm)	160/Tray		
	N32G451RCL7		144	256	96	51	8	1	24	12	3(19)	2	-	-	-	-	3	4	-	3/2	-	4	1	1	1	2/16	-	-	-	LQFP64 (10mmx10mm)	160/Tray		
	N32G451REL7		144	512	96	51	8	1	24	12	3(19)	2	-	-	-	-	3	4	-	3/2	-	4	1	1	1	2/16	-	-	-	LQFP64 (10mmx10mm)	160/Tray		
	N32G451VCL7		144	256	96	80	8	1	24	12	3(31)	2	-	-	-	-	3	4	-	3/2	-	4	1	1	1	2/16	-	-	-	LQFP100	90/Tray		
	N32G451VEL7		144	512	96	80	8	1	24	12	3(31)	2	-	-	-	-	3	4	-	3/2	-	4	1	1	1	2/16	-	-	-	LQFP100	90/Tray		

Note: “-” means not support

General MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity							DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCS)	
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/ISO7816/LIN	UART/LIN	LP/LART	SPI/FS	QSPI	I2C	USB Device								CAN
N32G4FR	N32G4FRKCQ7	Arm® Cortex®-M4F	144	256	144	24	1.8V~3.6V/-40~+105°C	8	1	10	6	2(7)	2	-	-	-	1	3	-	2/1	1	3	1	1	-	2/16	-	-	-	QFN32 (4mmx4mm)	490/Tray	
	N32G4FRKEQ7		144	512	144	24		8	1	10	6	2(7)	2	-	-	-	-	1	3	-	2/1	1	3	1	1	-	2/16	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G4FRHCQ7		144	256	144	32		8	1	12	6	2(11)	2	-	-	-	-	2	4	-	3/2	1	4	1	2	-	2/16	-	-	1	QFN40	490/Tray
	N32G4FRHEQ7		144	512	144	32		8	1	12	6	2(11)	2	-	-	-	-	2	4	-	3/2	1	4	1	2	-	2/16	-	-	1	QFN40	490/Tray
	N32G4FRREL7		144	512	144	51		8	1	24	12	2(16)	2	-	-	-	-	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	2(16)	2	-	-	-	-	3	4	-	3/2	1	4	1	2	1	2/16	-	-	1	LQFP80	119/Tray
N32G435	N32G435G8Q7		108	64	16	24		10	1	16	6	1(10)	1	2	2	-	-	2	2	1	1/1	-	2	-	-	-	1/8	-	-	-	QFN28	490/Tray
	N32G435GBQ7		108	128	32	24		10	1	16	6	1(10)	1	2	2	-	-	2	2	1	1/1	-	2	-	-	-	1/8	-	-	-	QFN28	490/Tray
	N32G435K8L7		108	64	16	26		10	1	17	6	1(10)	1	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP32	250/Tray
	N32G435KBL7		108	128	32	26		10	1	17	6	1(10)	1	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP32	250/Tray
	N32G435C8L7		108	64	24	38		10	1	24	6	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP48	250/Tray
	N32G435CBL7		108	128	32	38		10	1	24	6	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP48	250/Tray
	N32G435R8L7		108	64	24	52		10	1	28	12	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP48	250/Tray
	N32G435RBL7		108	128	32	52		10	1	28	12	1(16)	1	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	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP64 10mmx10mm	160/Tray
N32G432	N32G432K8L7		108	64	24	26		10	1	17	6	1(10)	1	-	-	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP32	250/Tray
	N32G432KBL7		108	128	32	26		10	1	17	6	1(10)	1	-	-	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP32	250/Tray
	N32G432C8L7		108	64	24	38		10	1	24	6	1(10)	1	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP48	250/Tray
	N32G432CBL7		108	128	32	38		10	1	24	6	1(10)	1	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP48	250/Tray
	N32G432R8L7		108	64	24	52		10	1	28	6	1(16)	1	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP64 10mmx10mm	160/Tray
	N32G432RBL7		108	128	32	52		10	1	28	6	1(16)	1	-	-	-	-	3	2	1	2/2	-	2	1	1	-	1/8	-	-	-	LQFP64 10mmx10mm	160/Tray

Note: “-” means not support

General MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity							DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCS)		
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Chs	12-bit DAC Chs	OPAMP	COMP			12-bit ADC Cell (Chs)	U.SART/ISO7816/LIN	UART/LIN	LP/UART	SPI/I ² S	QSPI	I ² C								USB Device	CAN
N32G430	N32G430F6Q7	Arm®Cortex®-M4F	128	32	16	16	2.4V-3.6V/-40~+105°C	8	1*	11	10	1	(7)	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-	UQFN20	490/Tray
	N32G430F8Q7		128	64	16	16		8	1*	11	10	1	(7)	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-	UQFN20	490/Tray
	N32G430G6Q7		128	32	16	24		8	1*	19	14	1	(10)	-	-	3	-	1	2*	2	-	2/2	-	2	-	1	-	1/8	-	-	-	QFN28	490/Tray
	N32G430G8Q7		128	64	16	24		8	1*	19	14	1	(10)	-	-	3	-	1	2*	2	-	2/2	-	2	-	1	-	1/8	-	-	-	QFN28	490/Tray
	N32G430K6Q7		128	32	16	26		8	1*	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G430K8Q7		128	64	16	26		8	1*	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G430C6Q7		128	32	16	40		8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	QFN48	490/Tray
	N32G430C8Q7		128	64	16	40		8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	QFN48	490/Tray
	N32G430F6S7		128	32	16	16		8	1*	11	10	1	(9)	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-	TSSOP20	70/Tube
	N32G430F8S7		128	64	16	16		8	1*	11	10	1	(9)	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-	TSSOP20	70/Tube
	N32G430F6S7-1		128	32	16	16		8	1*	11	10	1	(9)	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-	TSSOP20	70/Tube
	N32G430F8S7-1		128	64	16	16		8	1*	11	10	1	(9)	-	-	3	-	1	2*	1	-	2/2	-	2	-	1	-	1/8	-	-	-	TSSOP20	70/Tube
	N32G430K6L7		128	32	16	26		8	1*	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	LQFP32	250/Tray
	N32G430K8L7		128	64	16	26		8	1*	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	LQFP32	250/Tray
	N32G430C6L7		128	32	16	40		8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	LQFP48	250/Tray
N32G430C8L7	128	64	16	40	8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	LQFP48	250/Tray			
N32G401	N32G401F6Q7	Arm®Cortex®-M4F	72	32	8	16	2.4V-3.6V/-40~+105°C	8	1	11	10	1	(7)	-	-	3	-	1	2	1	-	2/2	-	2	-	-	-	1/8	-	-	-	UQFN20	490/Tray
	N32G401F8Q7		72	64	8	16		8	1	11	10	1	(7)	-	-	3	-	1	2	1	-	2/2	-	2	-	-	-	1/8	-	-	-	UQFN20	490/Tray
	N32G401G6Q7		72	32	8	24		8	1	19	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN28	490/Tray
	N32G401G8Q7		72	64	8	24		8	1	19	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN28	490/Tray
	N32G401K6Q7		72	32	8	26		8	1	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G401K8Q7		72	64	8	26		8	1	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G401K8Q7-1		72	64	8	28		8	1	20	14	1	(11)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN32 (5mmx5mm)	490/Tray
	N32G401K8Q7-2		72	64	16	28		8	1	22	12	1	(14)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G401C6Q7		72	32	8	40		8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN48	490/Tray
	N32G401C8Q7		72	64	8	40		8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	QFN48	490/Tray
	N32G401F6S7-1		72	32	8	16		8	1	11	10	1	(9)	-	-	-	-	1	2	1	-	2/2	-	2	-	-	-	1/8	-	-	-	TSSOP20	70/Tube
	N32G401F8S7-1		72	64	8	16		8	1	11	10	1	(9)	-	-	-	-	1	2	1	-	2/2	-	2	-	-	-	1/8	-	-	-	TSSOP20	70/Tube
	N32G401K6L7		72	32	8	26		8	1	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	LQFP32	250/Tray
	N32G401K8L7		72	64	8	26		8	1	20	14	1	(10)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	LQFP32	250/Tray
	N32G401C6L7		72	32	8	40		8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	LQFP48	250/Tray
N32G401C8L7	72	64	8	40	8	1	24	14	1	(16)	-	-	3	-	1	2	2	-	2/2	-	2	-	-	-	1/8	-	-	-	LQFP48	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 N32G430F8S7 are OSC_IN/OSC_OUT; The Pin2/Pin3 of N32D430F8S7-1 are OSC32_IN/OSC32_OUT.

General MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity								DMA/Channels	SEGMENT LCD	LED	DVP	Cryptographic Algorithm	Package	SPQ(PCGS)			
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/ISO7816/LIN	UART/LIN	LP/UART	SP/FS	QSPI	I2C	USB Device	CAN								SDIO		
N32G052	N32G052KBQ7	Arm® Cortex®-M0	64	128+8	16	29	2.0V~5.5V/-40~+105°C	6	1	38	4	1(8)	1	-	3	-	1	-	5	-	3/0	-	2	-	1	-	1/5	4x11/ 2x13	-	-	CRCL16	QFN32 (5mmx5mm)	490/Tray 2500/Reel		
	N32G052SBL7A		64	128+8	16	41		6	1	38	4	1(15)	1	-	4	-	1	-	5	-	3/0	-	2	-	1	-	1/5	3x27	-	-		LQFP44 (10mmx10mm) pinouts 2	160/Tray		
	N32G052CBL7		64	128+8	16	45		6	1	38	4	1(12)	1	-	4	-	1	-	5	-	3/0	-	2	-	1	-	1/5	8x22/ 4x26/ 3x27	-	-		LQFP48 (7mmx7mm)	250/Tray		
	N32G052RBL7		64	128+8	16	61		6	1	50	4	1(15)	1	-	4	-	1	-	5	-	3/0	-	2	-	1	-	1/5	8x32/ 4x36/ 3x37	-	-		LQFP64 (14mmx14mm)	90/Tray		
	N32G052RBL7B		64	128+8	16	61		6	1	50	4	1(15)	1	-	4	-	1	-	5	-	3/0	-	2	-	1	-	1/5	8x32/ 4x36/ 3x37	-	-		LQFP64 (10mmx10mm)	160/Tray		
	N32G052RBL7C		64	128+8	16	61		6	1	50	4	1(15)	1	-	4	-	1	-	5	-	3/0	-	2	-	1	-	1/5	8x32/ 4x36/ 3x37	-	-		LQFP64 (7mmx7mm)	250/Tray		
N32G033	N32G033F8S7		Arm® Cortex®-M0	64	64	6	17	2.0V~5.5V/-40~+105°C	4	-	10	6	1(9)	-	1	1	-	-	-	2	1	2/-	-	2	-	-	-	1/3	-	-	-	-	TSSOP20	3500/Reel	
	N32G033F8Q7			64	64	6	19		4	-	10	6	1(9)	-	2	1	-	-	-	2	1	2/-	-	2	-	-	-	1/3	-	-	-		QFN20 (3mmx3mm)	490/Tray 5000/Reel	
	N32G033F8Q7-1			64	64	6	19		4	-	10	6	1(9)	-	2	1	-	-	-	2	1	2/-	-	2	-	-	-	1/3	-	-	-		QFN20 (3mmx3mm)	490/Tray 5000/Reel	
	N32G033K8L7			64	64	6	27		4	-	10	8	1(10)	-	3	1	-	-	-	2	1	2/-	-	2	-	-	-	1/3	-	-	-		LQFP32	250/Tray	
	N32G033K8Q7			64	64	6	29		4	-	10	8	1(11)	-	3	1	-	-	-	2	1	2/-	-	2	-	-	-	1/3	-	-	-		QFN32 (5mmx5mm)	490/Tray 2500/Reel	
	N32G033K8Q7-1			64	64	6	29		4	-	10	8	1(11)	-	3	1	-	-	-	2	1	2/-	-	2	-	-	-	1/3	-	-	-		QFN32 (4mmx4mm)	490/Tray	
N32G032	N32G032F6U7			Arm® Cortex®-M0	48	32	8	16	1.8V~5.5V/-40~+105°C	6	1	11	3	1(7)	-	1	2	-	2	2	1	2	1/1	-	2	-	1	-	1/8	-	-	-	AES, SM4, CRCL16/CR32, TRNG	UFQFPN20	490/Tray 5000/Reel
	N32G032F6S7				48	32	8	16		6	1	11	3	1(9)	-	1	3	-	1	2	1	2	1/1	-	2	-	1	-	1/8	-	-	-		TSSOP20	70/Tube
	N32G032F8S7				48	64	16	16		6	1	11	3	1(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	1(10)	-	1	3	-	2	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-		WL CSP25	3000/Reel
	N32G032P8W7				48	64	16	21		6	1	15	3	1(10)	-	1	3	-	2	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-		WL CSP25	3000/Reel
	N32G032K6Q7				48	32	8	28		6	1	17	6	1(10)	-	1	3	-	2	2	2	2	2/1	-	2	-	1	-	1/8	-	-	-		QFN32	490/Tray
	N32G032K6L7	48			32	8	26	6	1	17	6	1(10)	-	1	3	-	2	2	2	2	3/2	-	2	-	1	-	1/8	-	-	-	LQFP32	250/Tray			
	N32G032K8L7	48			64	16	26	6	1	17	6	1(10)	-	1	3	-	2	2	2	2	3/2	-	2	-	1	-	1/8	-	-	-	LQFP32	250/Tray			
	N32G032C8L7	48			64	16	40	6	1	17	6	1(10)	-	1	3	-	2	2	2	2	3/1	-	2	-	1	-	1/8	-	-	-	LQFP48	250/Tray			
	N32G032R8L7	48			64	16	56	6	1	17	6	1(16)	-	1	3	-	2	2	2	2	3/1	-	2	-	1	-	1/8	-	-	-	LQFP64 (10mmx10mm)	160/Tray			

Note: “-” means not support

General MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity							DMA/Channels	SEGMENT LCD	LED	DVP	Cryptographic Algorithm	Package	SPQ(PCS)					
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/SO7816/LIN	UART/LIN	LPUART	SP/I²S	QSPI	I²C	USB Device								CAN	SDIO			
N32G031x8	N32G031F8U7	Arm®Cortex®-M0	48	64	8	16	1.8V~5.5V/-40~+105°C	5	1	11	3	1(7)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	UFQFPN20	490/Tray 5000/Reel				
	N32G031F8S7		48	64	8	16		5	1	11	3	1(9)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	TSSOP20	70/Tube 3500/Reel				
	N32G031K8Q7		48	64	8	28		5	1	14	6	1(10)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	QFN32 (5mmx5mm)	490/Tray 2500/Reel				
	N32G031K8Q7-1		48	64	8	28		5	1	14	6	1(10)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	QFN32 (4mmx4mm)	490/Tray				
	N32G031K8L7		48	64	8	26		5	1	14	6	1(10)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	LQFP32	250/Tray				
	N32G031C8L7		48	64	8	40		5	1	14	6	1(12)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	LQFP48	250/Tray				
N32G031x6	N32G031F6U7		Arm®Cortex®-M0	48	32	8		16	1.8V~5.5V/-40~+105°C	5	1	11	3	1(7)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	UFQFPN20	490/Tray 5000/Reel		
	N32G031F6S7			48	32	8		16		5	1	11	3	1(9)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	TSSOP20	70/Tube		
	N32G031K6Q7			48	32	8		28		5	1	14	6	1(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	1(10)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	QFN32 (4mmx4mm)	490/Tray		
	N32G031K6L7			48	32	8		26		5	1	14	6	1(10)	-	1	1	-	2	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	LQFP32	250/Tray		
N32G030	N32G030F6U7			Arm®Cortex®-M0	48	32		8		16	1.8V~5.5V/-40~+105°C	5	1	11	3	1(7)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	UFQFPN20	490/Tray 5000/Reel
	N32G030F6S7				48	32		8		16		5	1	11	3	1(9)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	TSSOP20	70/Tube
	N32G030F8S7				48	64		8		16		5	1	11	3	1(9)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	TSSOP20	70/Tube
	N32G030K6Q7				48	32		8		28		5	1	14	6	1(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	1(10)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G030K6L7				48	32		8		26		5	1	14	6	1(10)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	LQFP32	250/Tray
	N32G030K8L7				48	64		8		26		5	1	14	6	1(10)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	LQFP32	250/Tray
	N32G030K8Q7-1				48	64		8		28		5	1	14	6	1(10)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	QFN32 (4mmx4mm)	490/Tray
	N32G030C8L7				48	64		8		40		5	1	14	6	1(12)	-	1	1	-	1	2	-	1	2/1	-	2	-	-	-	1/5	-	-	-	LQFP48	250/Tray

Note: “-” means not support, (1)lin mode not supported

General MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity								DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package	SPQ(PCS)				
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/ISO7816/LIN	UART/LIN	LPUART	SPI/I ² S	QSPI	I ² C	USB Device	CAN								SDIO			
N32G003	N32G003F4Q7	Arm® Cortex®-M0	48	16	3	18	2V~5.5V/-40~+105°C	3	-	2	6	1(9)	-	-	1	-	2 ⁽¹⁾	-	1/-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	QFN20 (3mmx3mm)	490/Tray 5000/Reel
	N32G003F5Q7		48	29.5	3	18		3	-	2	6	1(9)	-	-	1	-	2 ⁽¹⁾	-	1/-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	QFN20 (3mmx3mm)	490/Tray	
	N32G003F4S7		48	16	3	18		3	-	2	6	1(9)	-	-	1	-	2 ⁽¹⁾	-	1/-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	TSSOP20	70/Tube	
	N32G003F5S7		48	29.5	3	18		3	-	2	6	1(9)	-	-	1	-	2 ⁽¹⁾	-	1/-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	TSSOP20	70/Tube	

Note: “-” means not support, (1)Lin mode not supported

Low Power Consumption MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity								DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm	Package		SPQ(PCS)	
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Chs		12-bit DAC Chs				OPAMP	COMP	USART/SOFTWARE LIN	UART/LIN	LPUART	SPI/I ² S	QSPI	I ² C						USB Device	CAN		SDIO
												12-bit	10-bit	12-bit	10-bit																			
N32L43X	N32L436C8L7	Arm® Cortex®-M4F	108	64	24	38	1.8V~3.6V/-40~+105°C	10	1	24	6	1(10)	1	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-	DES/3DES, AES, SHA1, SHA224, SHA256, SML, SM3, SM4, SM7, MD5, CRC16, CRC32, TRNG	LQFP48	250/Tray	
	N32L436CBL7		108	128	32	38		10	1	24	6	1(10)	1	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	1(16)	1	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	1(16)	1	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	1(16)	1	2	2	Y	-	3	2	1	2/2	-	2	1	1	-	1/8	4x44 8x40	-	-		LQFP80	119/Tray	
	N32L433K8L7		108	64	24	26		10	1	17	6	1(10)	1	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	250/Tray	
	N32L433KBL7		108	128	32	26		10	1	17	6	1(10)	1	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-		LQFP32	250/Tray	
N32L40X	N32L406C8Q7		64	64	16	38		10	1	24	6	1(10)	1	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	1(10)	1	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	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x20	-	-		LQFP48	250/Tray	
	N32L406CDL7		64	384	24	38		10	1	24	6	1(10)	1	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	1(16)	1	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	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64 (10mmx10mm)	160/Tray	
	N32L406RBL7-1		64	128	24	52		10	1	28	12	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-		LQFP64 (7mmx7mm)	250/Tray	
	N32L406RDL7	64	384	24	52	10	1	28	12	1(16)	1	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	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	1	-	1/8	4x34 8x30	-	-	LQFP80	119/Tray				
	N32L403K8Q7	64	64	16	26	10	1	17	6	1(10)	1	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray				
	N32L403KBQ7	64	128	24	26	10	1	17	6	1(10)	1	2	2	-	-	2	2	1	2/2	-	2	1	1	-	1/8	-	-	-	QFN32 (4mmx4mm)	490/Tray				
	N32L402C8Q7	64	64	16	38	10	1	24	6	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x20	-	-	QFN48	490/Tray				
	N32L402C8L7	64	64	16	38	10	1	24	6	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x20	-	-	LQFP48	490/Tray				
	N32L402CBQ7	64	128	16	38	10	1	24	6	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x20	-	-	QFN48	490/Tray 3000/Reel				
	N32L402CBL7	64	128	16	38	10	1	24	6	1(10)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x20	-	-	LQFP48	250/Tray 2000/Reel				
	N32L402R8L7	64	64	16	52	10	1	28	12	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x34 8x30	-	-	LQFP64 (10mmx10mm)	160/Tray				
	N32L402RBL7	64	128	16	52	10	1	28	12	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x34 8x30	-	-	LQFP64 (10mmx10mm)	160/Tray				
N32L402RDL7	64	384	16	52	10	1	28	12	1(16)	1	2	2	-	-	3	2	1	2/2	-	2	1	-	-	1/8	4x34 8x30	-	-	LQFP64 (10mmx10mm)	160/Tray					

Note: "-" means not support

Motor Control MCUs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	I/O	Supply Voltage/ Operating Temperature	Timer		PWM		Analog Interface				LPRCNT	BEEPER	Connectivity								Package	SPQ(PCS)						
								Timer	RTC	PWM	Complementary PWM	12-bit ADC Cell (CHs)	12-bit DAC CHs	OPAMP	COMP			USART/ISO7816/LIN	UART/LIN	LP_UART	SPI/FS	I2C	QSPI	USB Device	CAN			SDIO	DMA/Channels	SEGMENT LCD	ETH	DVP	Cryptographic Algorithm
N32M418	N32M418K8L7	Arm® Cortex® -M4F	128	64	16	23	MCU:2.4V~3.6V LDO:3.6V~1.8V/ -40~+105°C	8	1	7	10	1(8)	-	2	3	-	1	2	2	-	2/2	-	2	-	1	-	1/8	-	-	-	CRCL6/CRC32	LQFP32	250/Tray
N32M016	N32M016H8Q7	Arm® Cortex® -M0	64	64	6	21	MCU:2.0V~5.5V LDO:2.7V~2.0V Predriver:7V~20V Max vol:150V -40~+105°C	4	-	10	6	1(11)	-	3	1	-	-	-	2	1	2/0	-	2	-	-	-	1/3	-	-	-	-	QFN40	490/Tray

Note: "-" means not support

Security ICs

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	ROM (KB)	EEPROM (KB)	SRAM (KB)	Supply Voltage/ Operating Temperature I/O	Timer			Analog Interface				LCD	Three-Track Megapixel Head	Connectivity				ESD (HM)		Power Consumption			Security Management	Cryptographic Algorithm	Package	Certification					Turnkey Delivery	SPQ(PCS)					
									Timer	RTG	SysTick	Complementary PWM	12-bit ADC Chs	10-bit ADC Chs	10-bit DAC Chs			Capture	COMP	ISO7816	UART	SPI/I ² S	I ² C	USB Device	ISO14443	Complementary PWM				Contact(KV)	Contactless(KV)	PowerDown	Standby	Run(Typ)			CCTCC	CITSEC	BCITC	NIST	USB-11F
Multi-function Security IC	N32S033	Arm® Cortex®-M0	80	512	-	-	33	30	5	1	1	1	-	-	-	1	2	2/1	2	1	-	1/6	±4	-	0.1uA	80uA	125uA /MHz	•	AES/DES/3DES/SM1/SM4/RS4/ECC/SM2/SM9/SHA1/224/256/384/512/SM3	QFN48 QFN32 SOP8	Level2	EAL4+	-	-	USB Certification	Yes	490/Tray				
	N32S032		80	320	-	-	21	30	5	1	1	8	12	-	1	5	1	-	-	-	-	-	1/8	±4	-	0.1uA	80uA	110uA /MHz		•	QFN48 QFN32 QFN20/SOP8 SOP8	Level2	EAL5+	-		FIPS140-2 CAVP	Yes	490/Tray			
	N32S032 (Automotive Grade)		80	320	-	-	21	30	30	5	1	1	8	12	-	1	5	1	-	-	-	-	-	1/8	±4	-	0.1uA	80uA		110uA /MHz	•	QFN48 QFN32 QFN20/SOP8 SOP8	Level2	EAL5+	-	FIPS140-2 CAVP	Yes	490/Tray			
	N32S035		80	100	-	-	-	5	5	-	-	-	-	-	-	-	-	1	-	1	-	-	-	±4	±0.5	2uA	75uA	12mA		•	RS2248/ECD5A (NISTp256/p384/p521)-ECC/NISTp256/p384/p521/SM2/SM3/192/256/SM4/SM3/SHA-1/SHA-224/SHA-256/SHA-384/SHA-512	DFN8	-	EAL5+	-	FIPS 140-3 level3 CMVP	Yes	5000/Reel			
	N32S003		48	64	-	-	-	6	5 6 4	2	1	-	-	-	-	-	-	1	1	-	1	-	-	-	±6	-	0.5uA	85uA		2.85 mA	•	AES/DES/3DES/SM4/RS4/ECC/SM2/SM4256/SM3	DFN8-3 DFN8/SOP8 DFN6	Level2	EAL4+	-	-	Yes	3000/Reel 5000/Reel 490/Tray		
	N32S002-1		16	32	-	-	-	6	5	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	±4	-	360uA	500uA		1mA	•	SM2/SM3/SM4/SHA256/AES/ECC	DFN8	-	-	-	-	-	-	3000/Reel	
	N32S002-2		16	32	-	-	-	6	4	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	±4	-	360uA	500uA		1mA	•	SM2/SM3/SM4/SHA256/AES/ECC	SOT23-6	-	-	-	-	-	-	3000/Reel	
	Z32HUA-1		80	512	-	-	-	51	33	5	1	1	-	3	-	-	-	•	3	3/-	1	1	1	-	1/8	±4	-	1uA		130uA	20 mA	•	AES/DES/3DES/SM1/SM4/RS4/ECC/SM2/SM9/SHA1/224/256/384/512/SM3	QFN68 QFN32	Level2	EAL4+	Terminal IC security assessment, personal payment terminal security assessment	FIPS 140-2 CAVP	USB Certification	Yes	260/Tray 490/Tray
	Z32HUA-2		80	512	-	-	-	51	20	5	1	1	-	-	-	-	-	-	-	1	1	1	-	1/8	±4	-	1uA	130uA		20 mA	•	AES/DES/3DES/SM1/SM4/RS4/ECC/SM2/SM9/SHA1/224/256/384/512/SM3	QFN68 QFN32	Level2	EAL4+	Terminal IC security assessment, personal payment terminal security assessment	FIPS 140-2 CAVP	USB Certification	Yes	260/Tray 490/Tray	
	Z32HUB		60	320	-	-	-	16	22	2	1	-	1	-	-	-	-	-	-	1	1/-	-	1	2/1	±4	-	1uA	130uA		500uA /MHz	•	AES/DES/3DES/SM1/SM4/RS4/ECC/SM2/SM9/SHA1/224/256/384/512/SM3	QFN32	Level2	EAL4+	-	FIPS 140-2 CAVP	USB Certification	Yes	490/Tray 2500/Reel	

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

Trusted Computing ICs

Series	Commercial Product Code	Firmware Version	Info	CPU	Interface	Package	Symmetric Cryptography	Asymmetric Cryptography	Ambient Temperature	Applications
NS350 V30 TPM 2.0 FW30.30	NS350-KQAR-G2	30.30	TCG TPM Specification Reversion 2.0 1.59	32bit	SPI	QFN32	HMAC SHA-1 SHA2-256 SHA2-384	RSA2048 RSA3072 RSA4096 ECC NIST P256 ECC NIST P384	-20°C~+85°C	<ul style="list-style-type: none"> PC and mobile computing with Intel x86 Trusted computing Servers
	NS350-KQBR-G2	30.30	TCG TPM Specification Reversion 2.0 1.59	32bit	SPI	QFN32	HMAC SHA-1 SHA2-256 SHA2-384	RSA2048 RSA3072 RSA4096 ECC NIST P256 ECC NIST P384	-40°C~+85°C	<ul style="list-style-type: none"> ARM platforms and others Network equipment e.g. routers, gateways, switches, access points, multi-functions printers Industrial computing and programmable logic controllers embedded security

Battery Management ICs

Series	Commercial Product Code	Battery Type	Cells Number	Battery Capacity (mAh)	Sampling Precision (Typ.)	Voltmeter Precision	LED Segment	Communication	Safety Protection	Feature	Supply Voltage(V)	Operating Temperature(°C)	Package
NB401	NB401KBQ6C	Li-ion/Li-poly	2-4	100~29000	Voltage: ±1mV Current: ±1mA Temperature: ±2°C	1% (Normal temperature) 3% (Full temperature)	0-6	SMBus	OLD SCC SCD1/2	<ul style="list-style-type: none"> High side NMOS*2 Balancing Watchdog SHA/ECC authentication 	2.3~26	-40~+85	QFN32 (4mm x 4mm)

Quick Charge Chips

Series	Commercial Product Code	Core	Frequency (MHz)	Flash (KB)	Supply Voltage/ Operating Temperature	CCI/CC2	DP/DM	Type-C Port Role	Vol. and Cur. Sense	Integrated Driver	Protections	Interface	PD	Protocol	Package	SPQ(PCS)
NP11 NP12 NP21	NP11E6Q7	Arm® Cortex®-M0	48	29.5	3V~25V/-40~+85°C	1	1	DRP*1	1*5mΩ	NMOS*1	OVP/UVP/OCF /SCP/OTP	I2C/FB/OPTO	PD3.1/PPS/ QC4.0	QC/FCP/SCP/ AFC/UFCS	QFN24	490/Tray
	NP12E8Q7	Arm® Cortex®-M4	128	64	3V~25V/-40~+85°C	1	1	DRP*1	1*5mΩ	NMOS*1	OVP/UVP/OCF /SCP/OTP	I2C/FB/OPTO	PD3.1/PPS/ QC4.0	QC/FCP/SCP/ AFC/UFCS	QFN24	490/Tray
	NP21H8Q7	Arm® Cortex®-M4	128	64	3V~25V/-40~+85°C	2	2	DRP*2	2*5mΩ	NMOS*2	OVP/UVP/OCF /SCP/OTP	I2C/FB/OPTO	PD3.1/PPS/ QC4.0	QC/FCP/SCP/ AFC/UFCS	QFN40	490/Tray

Package Options

WLCSP	SOP8 4.8mm*3.8mm	DFN8 3mm*3mm/ 3mm*2mm	DFN12 2.5mm*4mm	TSSOP20 6.5mm*4.4mm

UFQFPN20 3mm*3mm	UQFN20 3mm*3mm	UQFN48 7mm*7mm	QFN20 3mm*3mm/ 4mm*4mm	QFN28 4mm*4mm

QFN32 4mm*4mm/ 5mm*5mm	QFN36 6mm*6mm	QFN40 5mm*5mm	QFN48 6mm*6mm	QFN64 8mm*8mm

QFN88 10mm*10mm	BGA64 5mm*5mm	BGA72 4.40mm*3.76mm	BGA81 4.40mm*3.76mm	BGA100 8mm*8mm

BGA144 7mm*7mm	BGA176+25 10mm*10mm	BGA240+25 14mm*14mm	LQFP32 7mm*7mm	LQFP44 10mm*10mm

LQFP48 7mm*7mm	TQFP48 7mm*7mm	LQFP64 7mm*7mm 10mm*10mm 14mm*14mm	LQFP80 12mm*12mm	LQFP100 14mm*14mm

LQFP128 14mm*14mm	LQFP144 20mm*20mm	LQFP176 24mm*24mm

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

 NSING NSING Service Account



Development&Debug

Manual Application Note Transplant Guide

Software Development Tools Debug Tools

   NS-LINK J-Link ULink

Development Evaluation Board



Support RTOS

OpenHarmony   Tencent Cloud  

Direct, Channel and Online Sample Purchasing



Online & Offline Support from AE+FAE



Mass Production

MP programming tool



HI-LO SYSTEMS



Security Differential FOTA



Development Board

• Mininum System Board



• Full Function Development Board



N32H787XKB7_EVB

N32G457QE_EVB

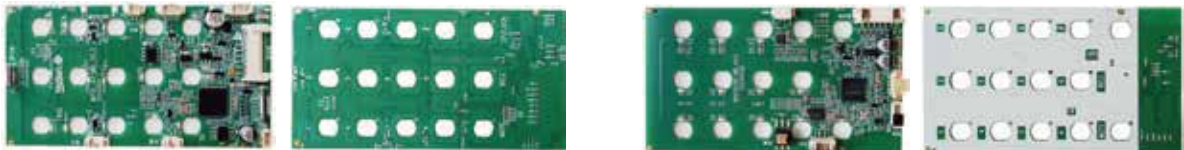
N32L436MBL7_EVB

• Solution Development Board



Motor Drive Development Board
(Single Resistance/Dual Resistance)

• Smart Lock Development Board



Fully automatic door lock scheme

Semi automatic door lock scheme

• Smart Meter Development Board



NS-LINK Offline programmer



NS-LINK-Pro