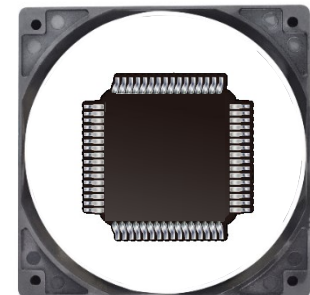
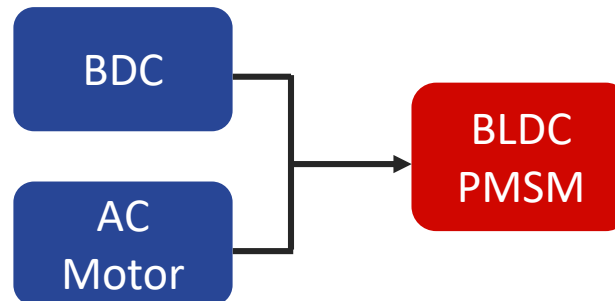
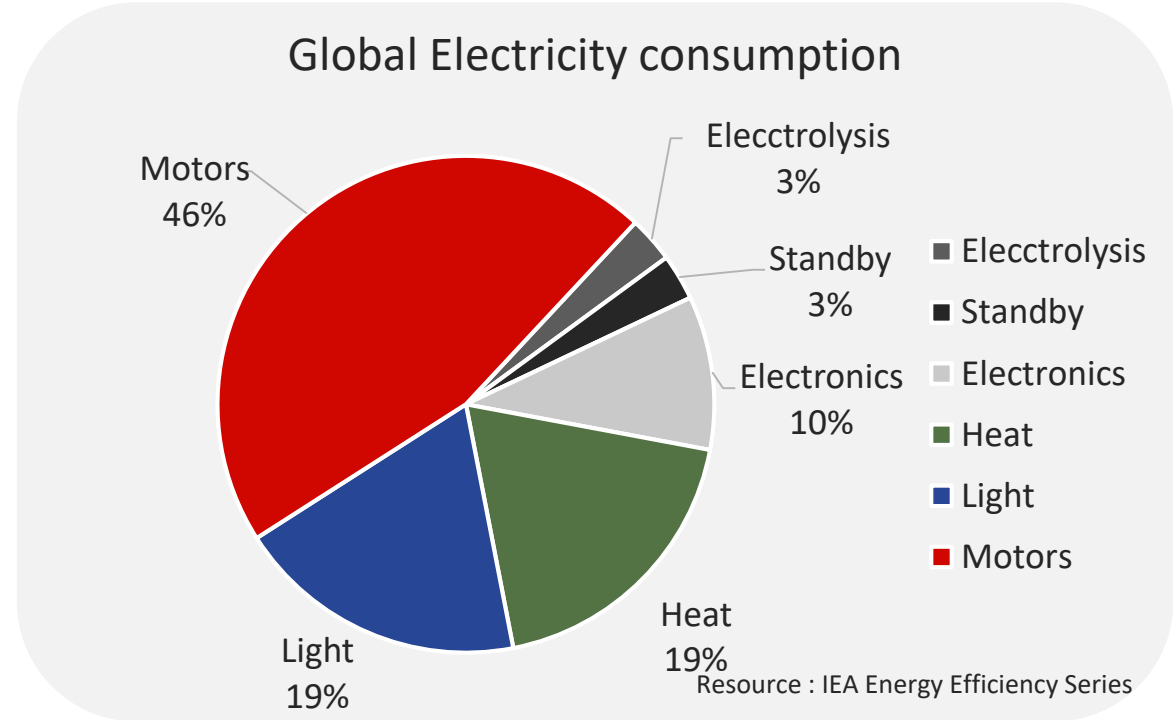
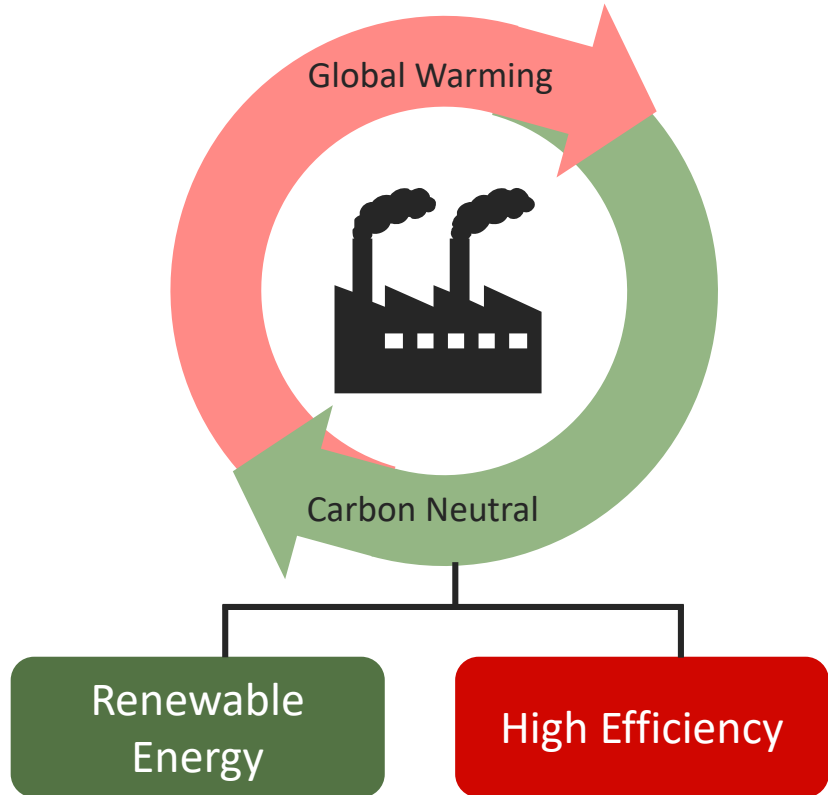





















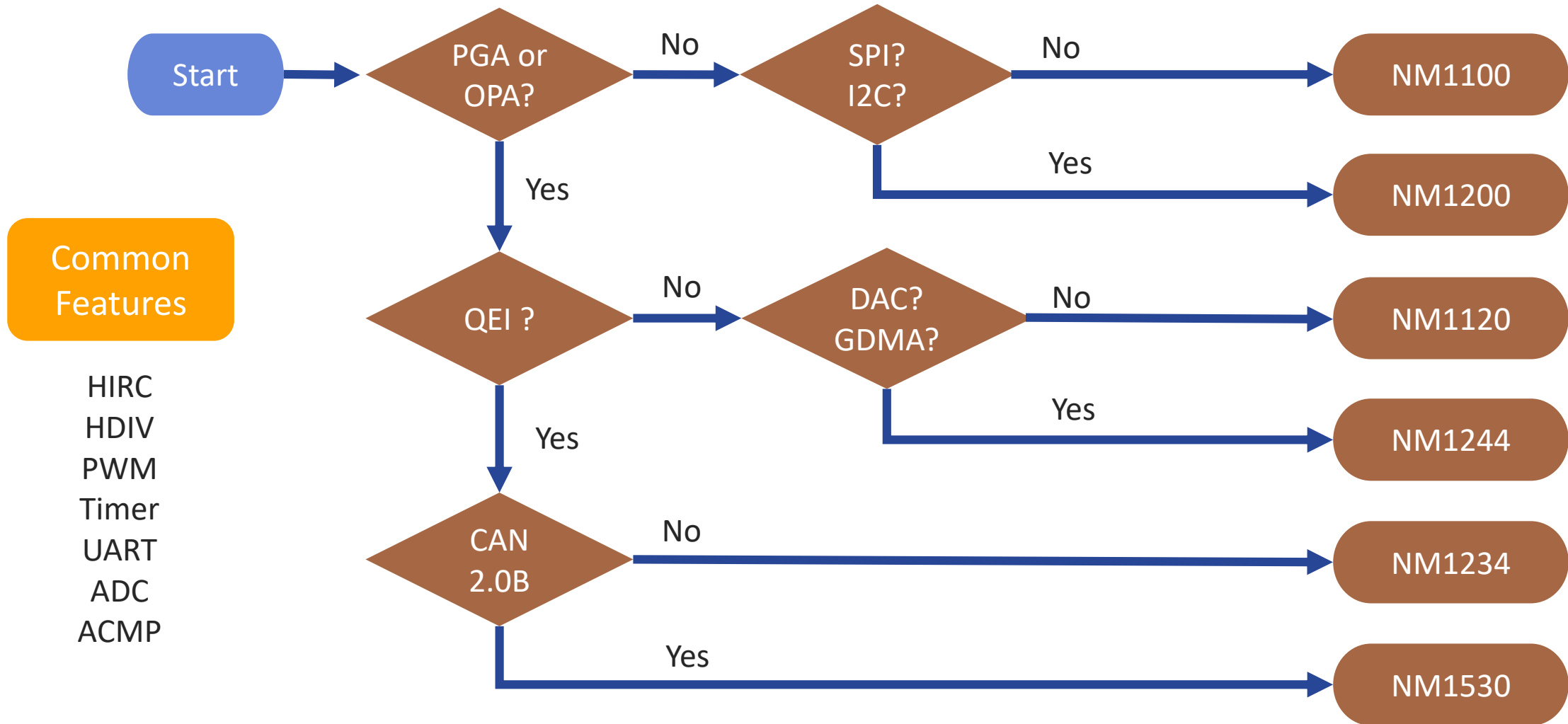
Motor Application Market Trend



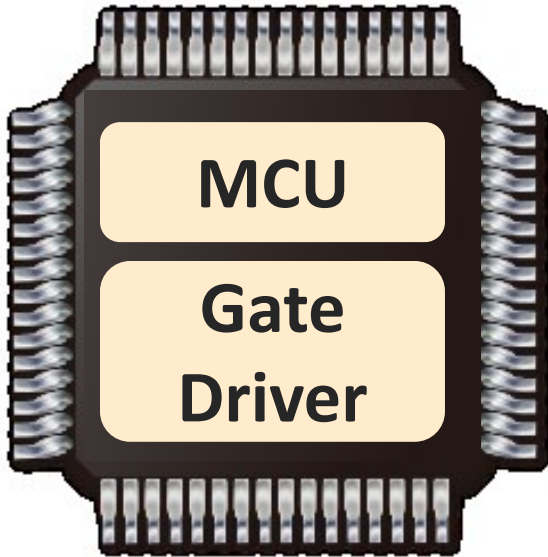
NM MCU Series Product Roadmap

128k B	NM1530	Cortex-M0, HDIV, -40~105°C, 2.5V~5.5V, HIRC 1%@25°C, 16-bit PWM, 24-bit Timer, 12/10-bit ADC, UART, ACMP	LQFP48 _(7x7mm²) LQFP64 _(10x10mm²) LQFP100 _(14x14mm²)	CAN2.0b/MDU/ OPA x 2/QEI/2 motors compatible 72MHz, 8kB/16kB RAM, I ² C x 1, SPI x 3, ECAP	 
64 kB	NM1234		LQFP48 _(7x7mm²)	72MHz/OPA x 3/PGA x1/DAC x 2 /QEI 8kB/16kB RAM, I ² C x 3, SPI x 2 , ECAP	  
	NM1244		QFN48 _(7x7mm²) LQFP48 _(7x7mm²)	60MHz/Standby < 1μA/ DAC x 2/DMA 8kB RAM, I ² C x 2, SPI x 1, ECAP , OPA x 1	   
29.5 kB	NM1120		QFN20 _(4x4mm²) TSSOP20 _(4.4x6.5mm²) TSSOP28 _(4.4x9.7mm²)	48MHz/PGA x 1 4kB RAM, I ² C x 2, SPI x 2, ECAP	   
17.5 kB	NM1200		QFN33 _(5x5mm²) LQFP48 _(7x7mm²)	48MHz 2kB RAM, I ² C x 1, SPI x 1	   
	NM1100	TSSOP20 _(4.4x6.5mm²)	48MHz 2kB RAM	 	

Selection Guide for MCU Series



NM MCP Series Product Roadmap

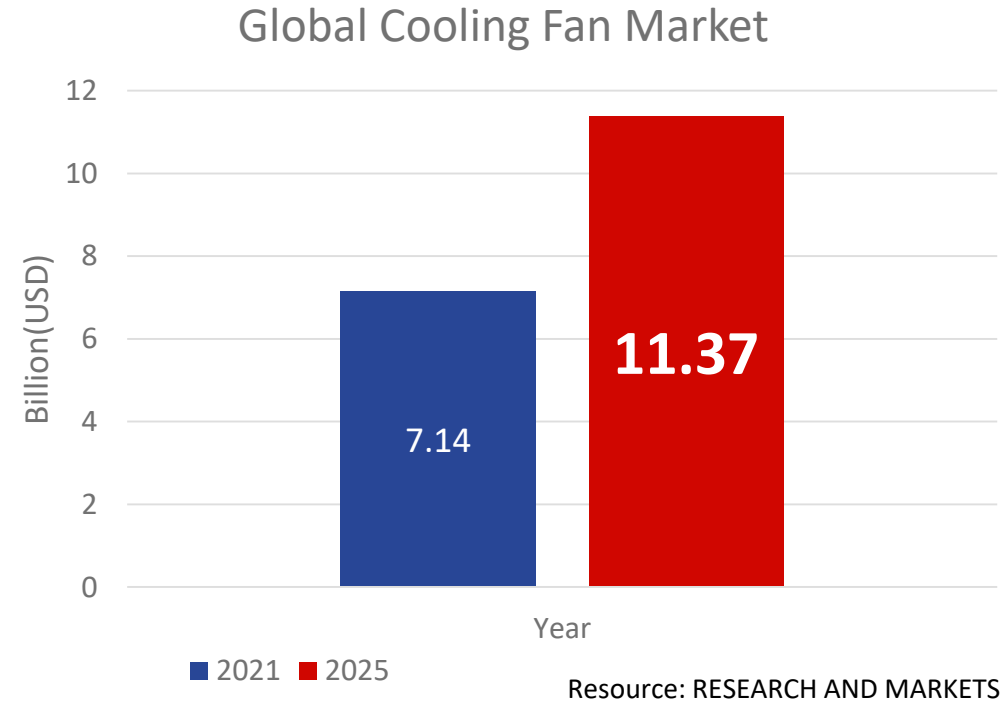
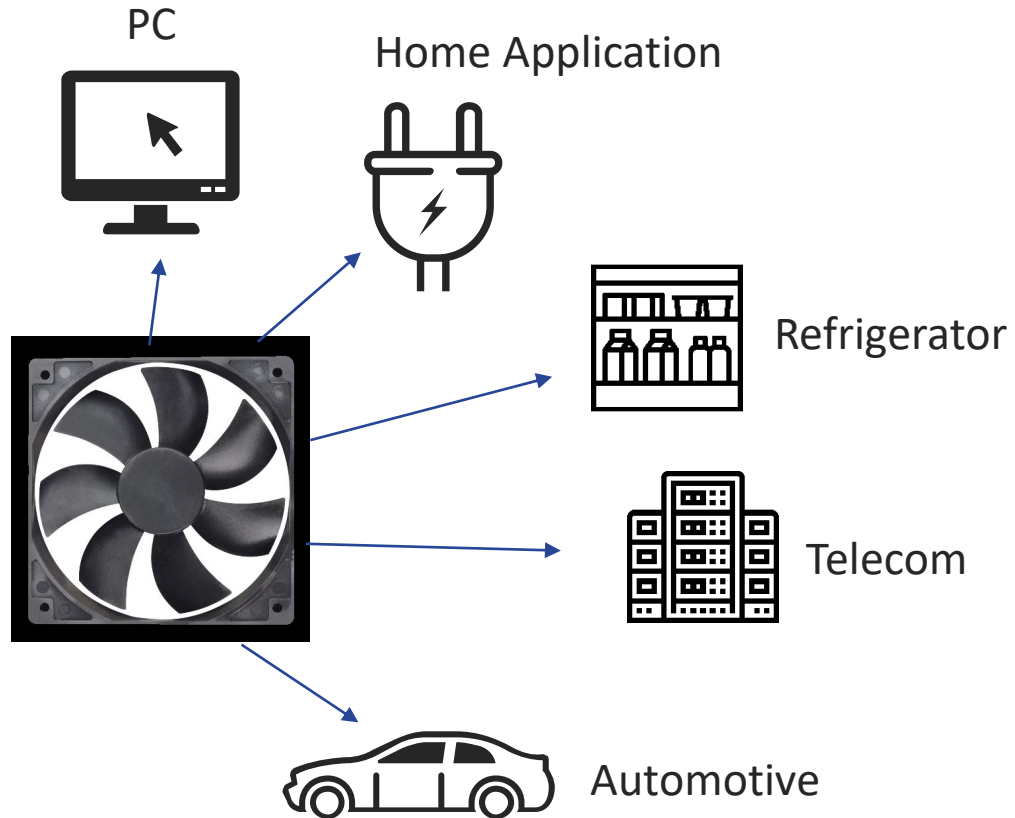


Built-in functions:

- 5V LDO
- Comparators
- Shoot-through protection
- Thermal protection
- UVLO

	600V		NM1817 LQFP44(10x10)	
	200V			NM18440 LQFP48(7x7)
	40V	NM18002 QFN24(4x4)	NM18107 QFN32(5x5)	
MCU	MS51	NM1120	NM1244	
Application	Single phase	Three phase		

Market for Cooling Fan



CAGR is about **12.34%**.

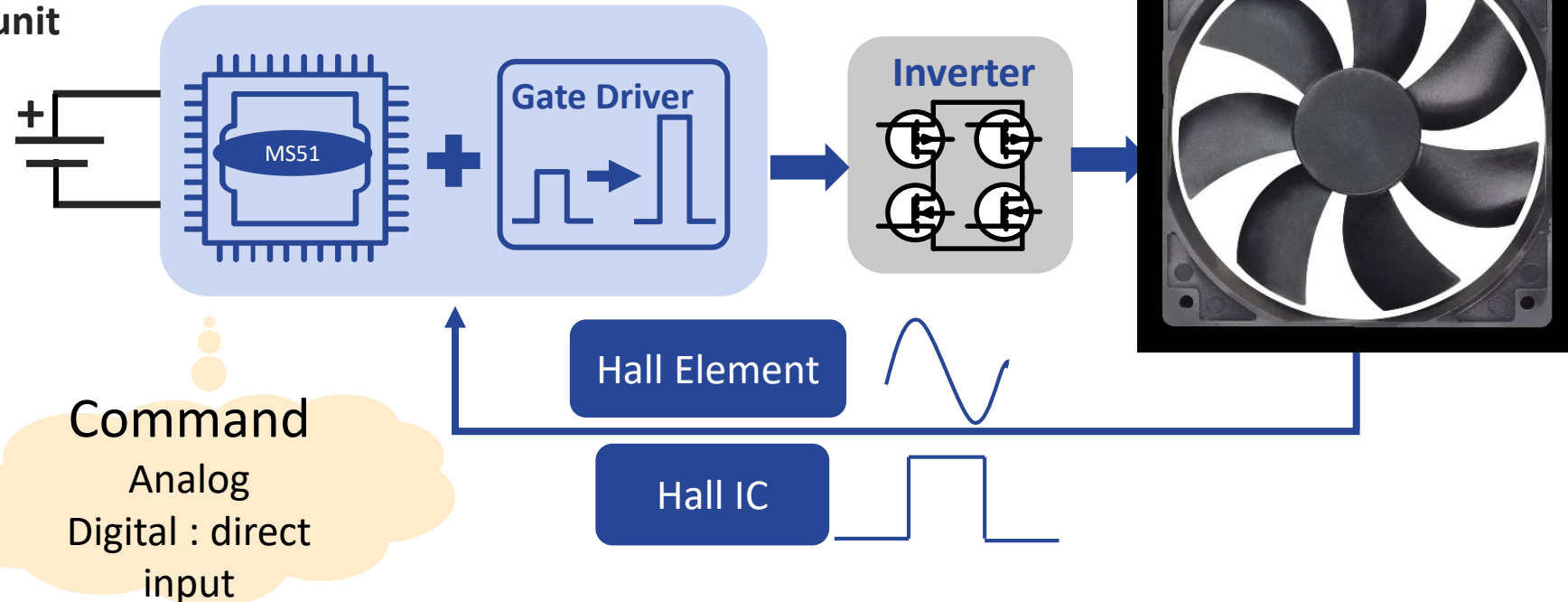
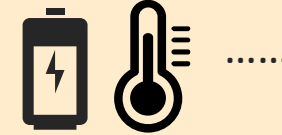
NM18002Y

Highlights

- 12V-24V Fan
- PN gate driver
- Supports 4-Wire Programming
- Passive part → Active control unit

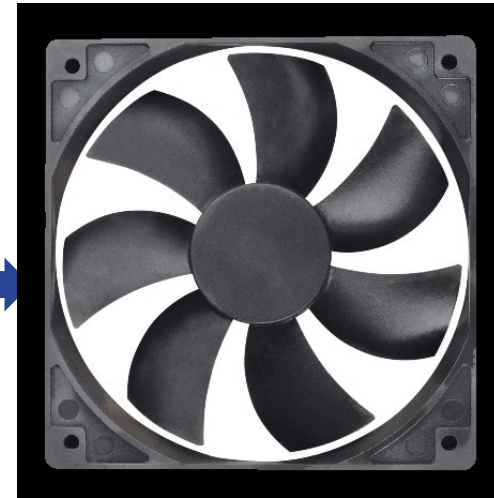
Communication
UART/I²C

Detection

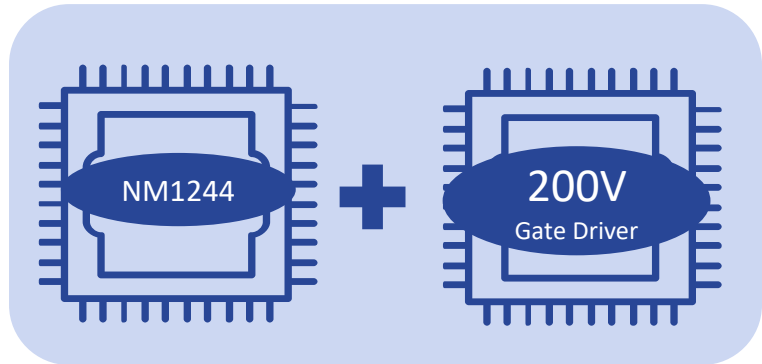


5cm

3cm

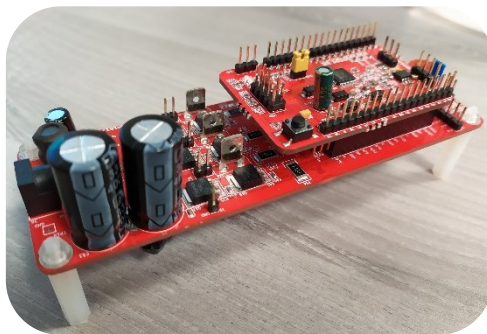


NM18440D



Highlights

- 200V application : 110VAC, 24~96VDC
- LQFP48(7x7)
- Up to 29 GPIO



Cooling fan
in
refrigerator

Hand
Drier



Ceiling
fan

Soy-milk
maker



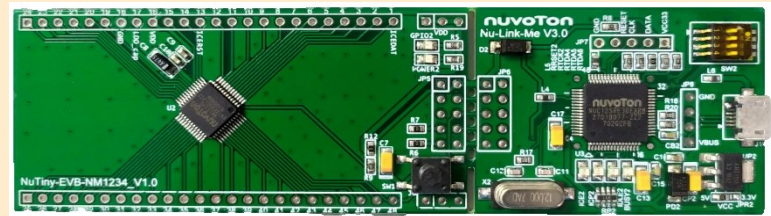
Tools for Development



Tiny Board

NT-NM1200
NT-NM1120
NT-NM1230
NT-NM1240
NT-NM1530

Hardware



MCU + NuLink

Software

NM1200_BSP_CMSIS
NM1120_BSP_CMSIS
NM1230_BSP_CMSIS
NM1240_BSP_CMSIS
NM1530_BSP_CMSIS

Motor System Board

NK-NM1200L NK-NM1120L
NK-NM1230L NK-NM1240L
NK-NM1530L

NK-NM18107L NK-NM18002
NK-NM18440 NK-NM1817H



MCU + GateDriver +MosFET

NuMotor_NM1200
NuMotor_NM1120
NuMotor_NM1240
NuMotor_NM1230
NuMotor_NM1530
NuMotor_NM18002Y

| We Provide.....



Balanced Product Line



Technical consult



Shipment > 100kk



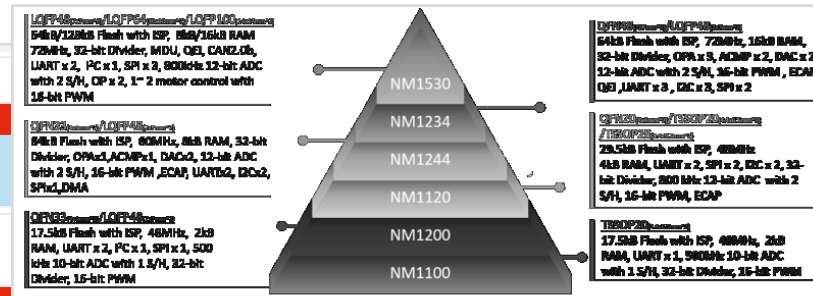
High quality



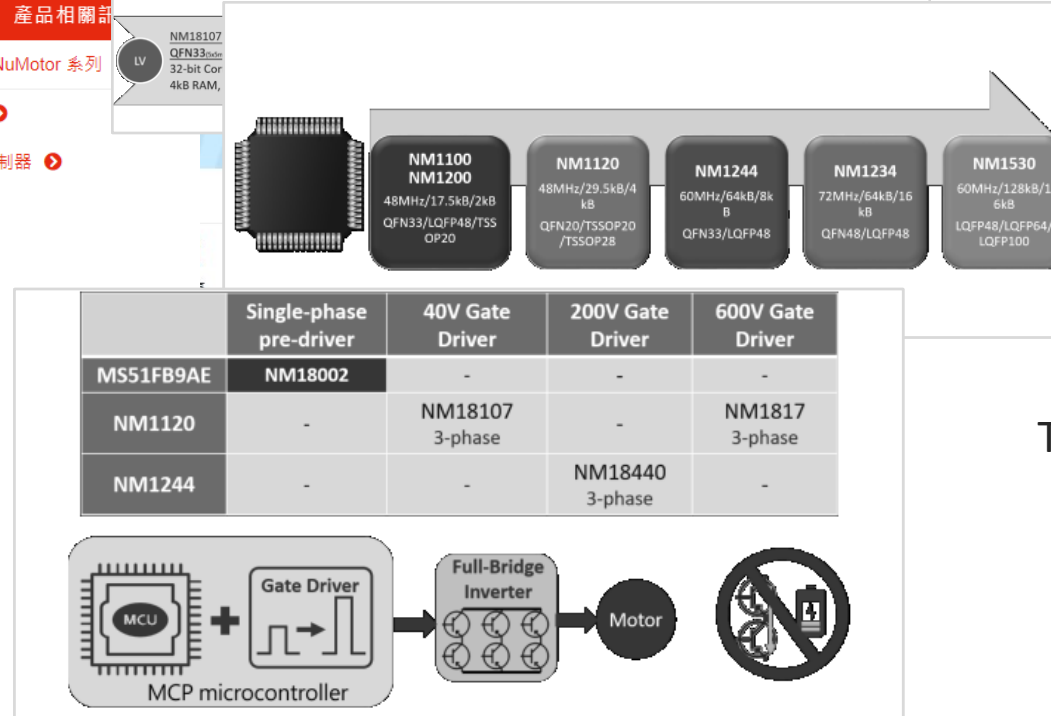
Long life cycle



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谢谢

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Děkuji

Bedankt

Thank you

Kiitos

Merci

Danke

Grazie

ありがとう

감사합니다

Dziękujemy

Obrigado

Спасибо

Gracias

Teşekkür ederim

Cảm ơn