

N32H487	32 bit ARM Cortex-M4F	240MHz	DSP
512KB	Flash 192		

— 1	USB FS Device	PHY										
— 1	USB HS DualRole	PHY										
— 6	SPI	2	I2S	/				SPI				
— 4	USART	/4	UART	ISO7816		IrDA	LIN	USART3/UART5/UART8		TX/RX		
— 4	I2C	1 MHz										
— 3	CAN-FD											
— 1	IEEE-802.3-2002	Ethernet MAC				10M/100M		IEEE1588				
— 1	DVP	Digital Video Port				8/10/12/16						
— 4	12bit 4.7Msps ADC	12bit	10bit	8bit	6bit				16bit	ADC	16	
	3											
— 2	12 bit DAC	DAC		1					1Msps	Buffer		
	Buffer											
— 1												
— 1	xSPI	1/2/4/8						SRAM	PSRAM	Flash	XIP	
— 1	FEMC(Flexible External Memory Controller)					8/16				SRAM	PSRAM	NOR Flash
	NAND Flash											

		FMAC	FIR	IIR
2	DMA			8
RTC				

— 3	16bit				4.16ns	6
		4	4	PWM		
— 10	16	(GTIM1~10)				
	GTIM1~7		5.56ns	4		PWM
	GTIM8~10		4.16ns	4		PWM
		1				
— 2	32bit					
— 2	16bit	Stop0	Standby			
— 1x	24bit SysTick	1x 14bit	(WWDG)	1x 12bit	(IWDG)	

- SWD/JTAG
- USB UART Bootloader

- Flash SMPU
- WRP RDP L0/L1/L2
- AES/TDES SHA SM3 SM4 MD5
- TRNG CRC16/32
-
-
- 96 9696

	N	32	H	4	87	V	E	L	7	
Company Abbreviation										
Nationtech										
MCU Bit Width										
32bit										
Types of Product										
High performance										
MCU Core										
4 = ARM Cortex-M4										
Product Series										
87 = Interconnected type										
Number of Pins										
R = 64 Pins V = 100 Pins Z = 144 Pins										
										Temperature Range
										7 : -40 ℃~105 ℃
										Package Type
										L = LQFP
										Flash Size
										E = 512KB Flash

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2-1 N32G487

N32H487REL7

N32H487VEL7

Cordic	Yes		
FMAC	Yes		
	RDP/WRP		
	LQFP64	LQFP100	LQFP144

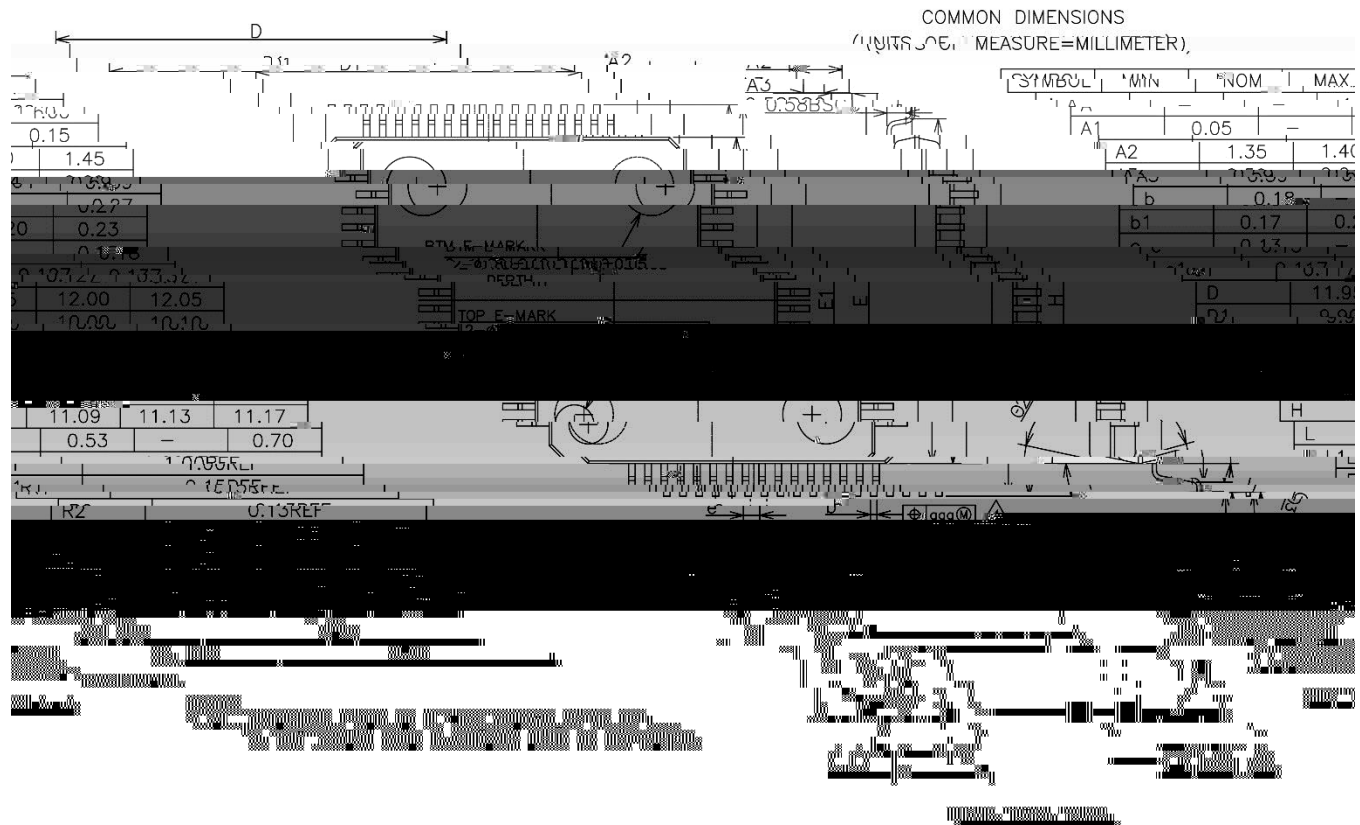
1. CCM SRAM
- SRAM
- CCM SRAM
2.
- 1
3.

3

3.1

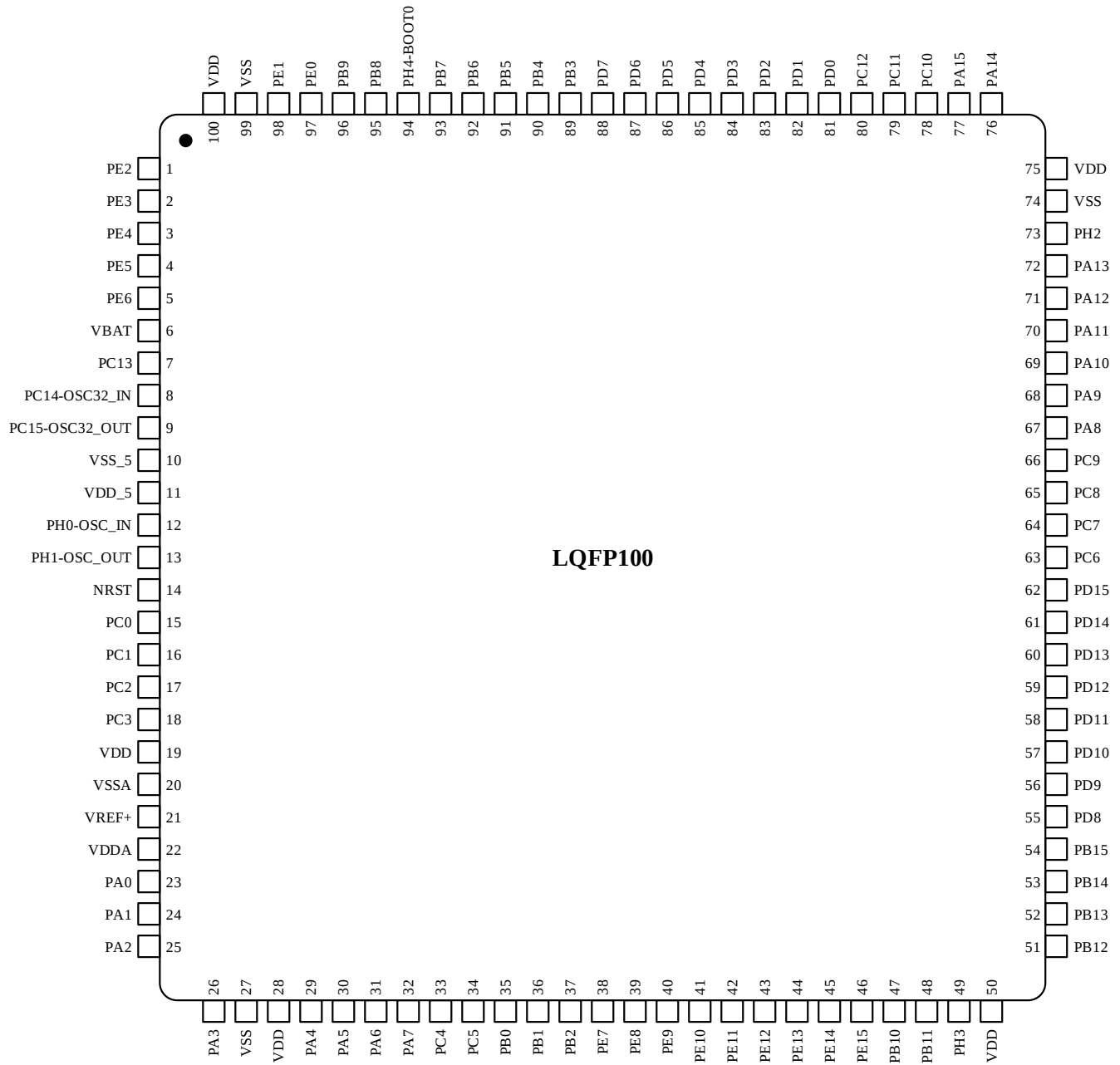
3.1.1



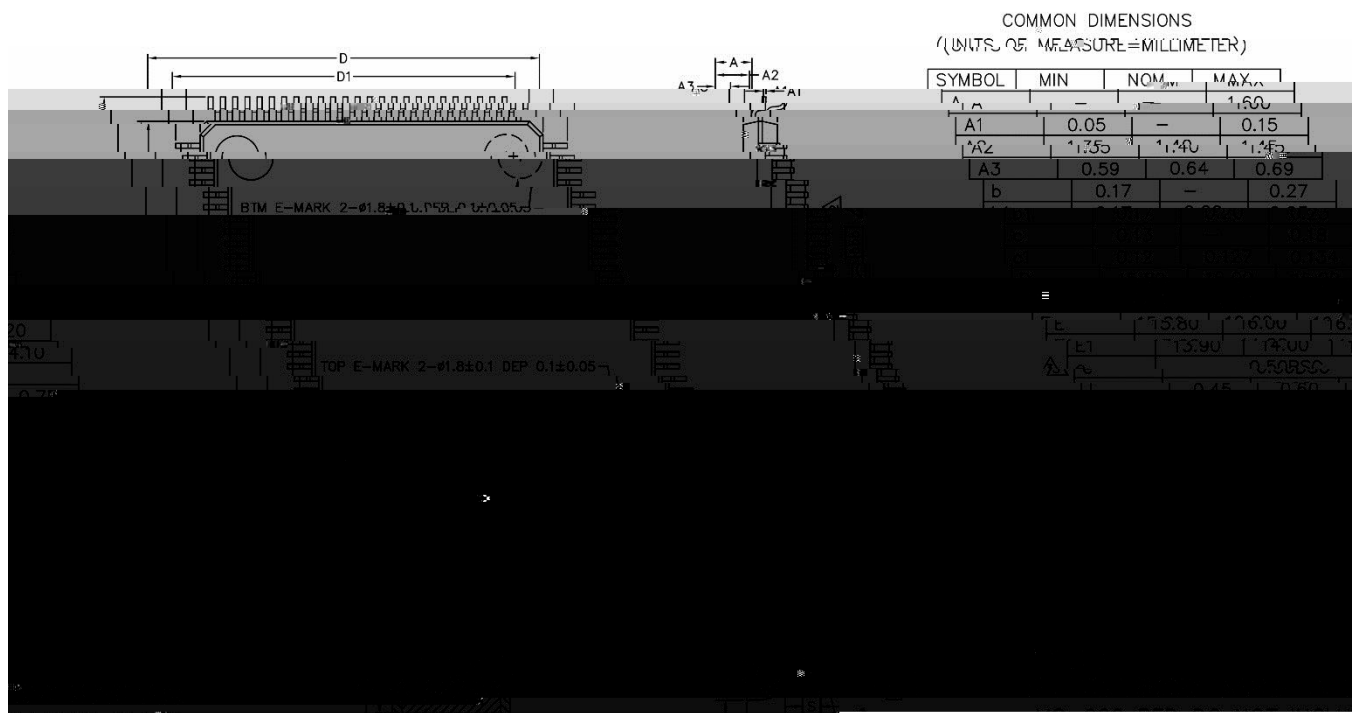


3.2

3.2.1



3.2.2



3.3.1

