

PENGPai MICROELECTRONICS 产品选型手册

SELECTION GUIDE

PENGPAI MICROELECTRONICS

文化理念

公司经营理念：为客户创造价值、客户至上、品质第一
核心价值观：诚实、奋斗、专业、合作共赢

Culture and Value

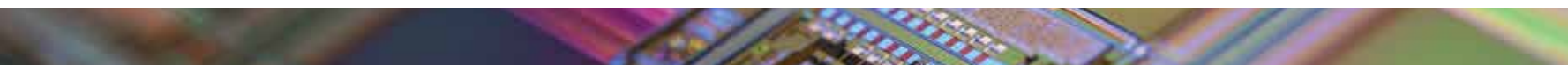
Company's guiding principles: create values for our customers, customer focus, and quality driven. Core values: intellectual honesty, craftsmanship, professionalism, win-win collaboration.

愿景与使命

用“芯”创造美好生活，以科技服务社会

Vision and mission

Create a better life with "PAI-IC" and contribute to the society by using science and technology.



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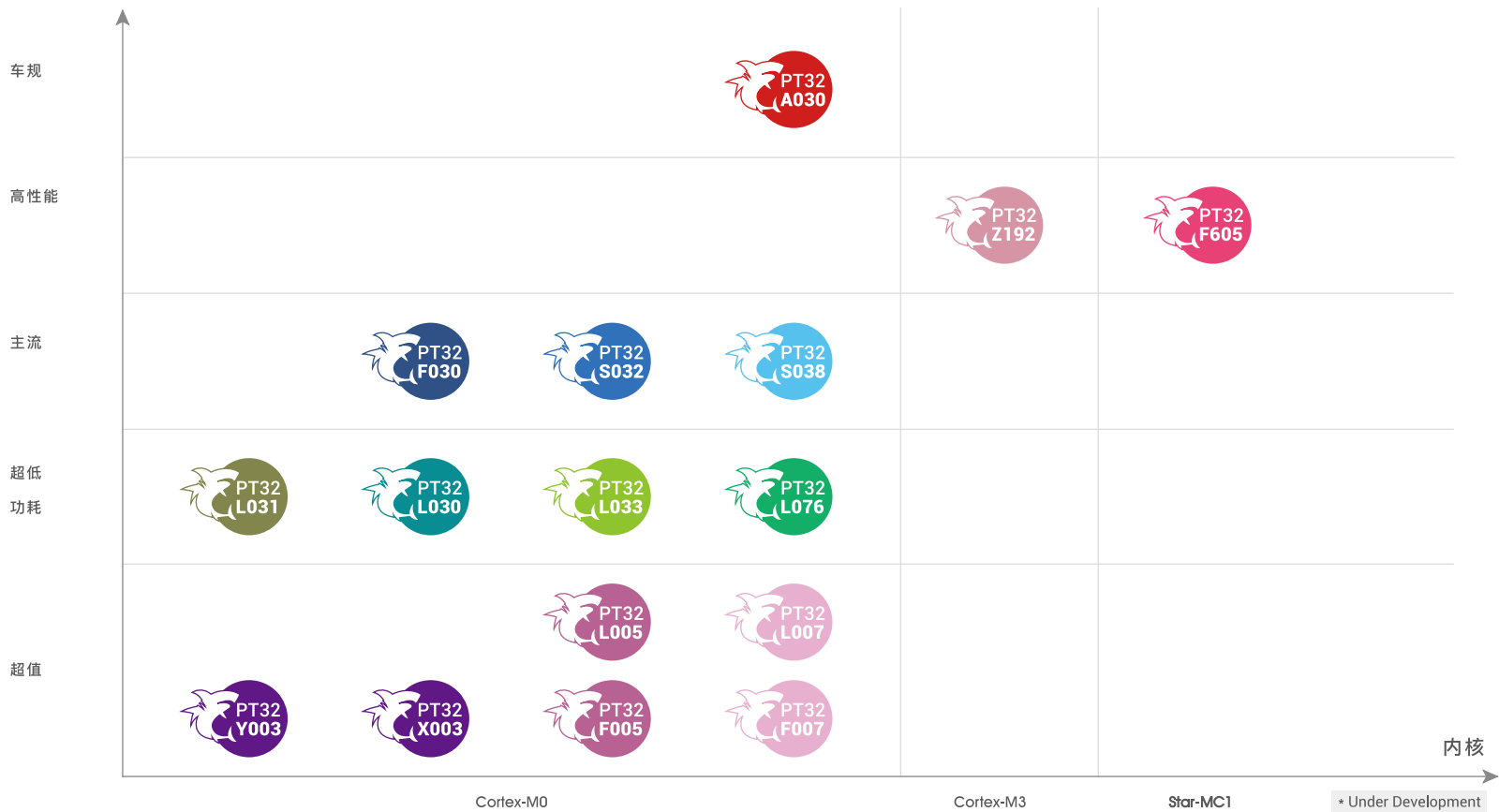
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8位

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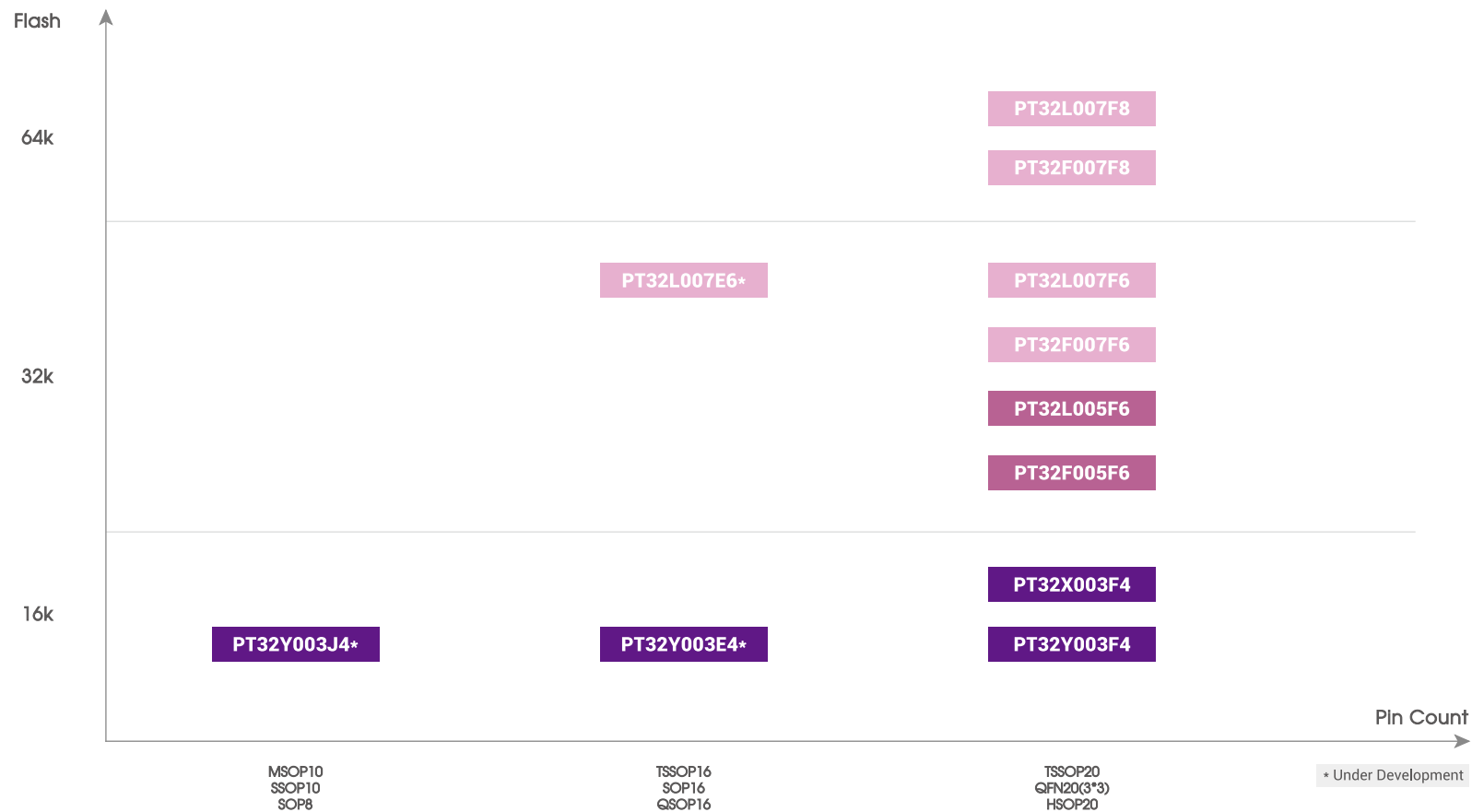
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PT32 MCU PRODUCT FAMILY 系列产品分布图



PT32 超值系列产品

PT32 Value Line MCU



PT32Y/X003 选型表

SELECTION GUIDE



深度睡眠电流=3μA typ.

Part Number	Memory			Core	CPU Frequency	Operating Voltage	GPIO	Timer & Counter				Communication Interface			Clock			Analog		Security	Operating Temperature	SWD Pins	Package Information			
	Flash (K)	RAM (K)	EEP (B)		MHz	VDD (V)	I/O	Adv	Base	Low Power	WDG	UART	I2C	SPI	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC 12-bit	PVD	CRC	°C		Package Types	Thickness	Pin Pitch	Packing
PT32Y003F4P6A	16	2	128	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	4~25	48	32	12ext + 2int	√	√	-40~85	8, 18	TSSOP20	1.2mm	0.65mm	Tube
PT32Y003F4P6B	16	2	128	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	4~25	48	32	12ext + 2int	√	√	-40~85	17, 18	TSSOP20	1.2mm	0.65mm	Tube
PT32Y003F4X6D	16	2	128	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	4~25	48	32	12ext + 2int	√	√	-40~85	5, 15	QFN20(3*3)	0.55mm	0.4mm	Tray
PT32Y003F4X6DR	16	2	128	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	4~25	48	32	12ext + 2int	√	√	-40~85	5, 15	QFN20(3*3)	0.55mm	0.4mm	Tape & Reel
PT32X003F4P6A	16	2	480	M0	48	2.2-3.6	17+1	1	2	1	1	2	1	1	-	48	32	12ext + 2int	-	√	-40~85	8, 18	TSSOP20	1.2mm	0.65mm	Tube
PT32X003F4P6B*	16	2	480	M0	48	2.2-3.6	17+1	1	2	1	1	2	1	1	-	48	32	12ext + 2int	-	√	-40~85	17, 18	TSSOP20	1.2mm	0.65mm	Tube
PT32X003F4X6C*	16	2	480	M0	48	2.2-3.6	17+1	1	2	1	1	2	1	1	-	48	32	12ext + 2int	-	√	-40~85	14, 15	QFN20(3*3)	0.55mm	0.4mm	Tray
PT32X003F4X6CR*	16	2	480	M0	48	2.2-3.6	17+1	1	2	1	1	2	1	1	-	48	32	12ext + 2int	-	√	-40~85	14, 15	QFN20(3*3)	0.55mm	0.4mm	Tape & Reel

* Under Development

PT32L/F005 选型表

SELECTION GUIDE



深度睡眠电流 < 1 μA

Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	Timer & Counter				Communication Interface			Clock			Analog		Security	Operating Temperature	SWD Pins	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O	Adv	Base	Low Power	WDG	UART	I2C	SPI	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	PVD	CRC	°C		Package Types	Thickness	Pin Pitch	Packing
PT32L005F6P6	32	2	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	24	32	2	8ext+3int	√	√	-40~85	17, 18	TSSOP20	1.2mm	0.65mm	Tube
PT32L005F6X6	32	2	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	24	32	2	8ext+3int	√	√	-40~85	14, 15	QFN20(3*3)	0.75mm	0.4mm	Tray
PT32L005F6X6R*	32	2	M0	48	1.8-5.5	17+1	1	2	1	1	2	1	1	24	32	2	8ext+3int	√	√	-40~85	14, 15	QFN20(3*3)	0.75mm	0.4mm	Tape & Reel
PT32F005F6P6	32	2	M0	48	2.2-5.5	17+1	1	2	-	1	2	1	1	24	32	2	8ext+3int	√	√	-40~85	8, 18	TSSOP20	1.2mm	0.65mm	Tube
PT32F005F6X6*	32	2	M0	48	2.2-5.5	17+1	1	2	-	1	2	1	1	24	32	2	8ext+3int	√	√	-40~85	5, 15	QFN20(3*3)	0.75mm	0.4mm	Tray
PT32F005F6X6R*	32	2	M0	48	2.2-5.5	17+1	1	2	-	1	2	1	1	24	32	2	8ext+3int	√	√	-40~85	5, 15	QFN20(3*3)	0.75mm	0.4mm	Tape & Reel

* Under Development

PT32L/F007 选型表

SELECTION GUIDE



深度睡眠电流 < 1μA

Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	Timer & Counter				Communication Interface				Clock		Analog		Security	Operating Temperature	SWD Pins	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O	Adv	Base	Low Power	WDG	UART	I2C	SPI	HSI (MHz)	LSI (KHz)	ADC 12-bit	PVD	CRC	°C	Package Types		Thickness	Pin Pitch	Packing	
PT32F007F8P7	64	16	M0	64	2.2-5.5	17+1	1	2	-	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	8, 18	TSSOP20	1.2mm	0.65mm	Tube	
PT32F007F8X7	64	16	M0	64	2.2-5.5	17+1	1	2	-	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	8, 18	QFN20(3*3)	0.75mm	0.4mm	Tray	
PT32F007F6P7	32	8	M0	64	2.2-5.5	17+1	1	2	-	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	8, 18	TSSOP20	1.2mm	0.65mm	Tube	
PT32F007F6X7	32	8	M0	64	2.2-5.5	17+1	1	2	-	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	8, 18	QFN20(3*3)	0.75mm	0.4mm	Tray	
PT32L007F8P7	64	16	M0	64	1.8-5.5	17+1	1	2	1	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	17, 18	TSSOP20	1.2mm	0.65mm	Tube	
PT32L007F8X7	64	16	M0	64	1.8-5.5	17+1	1	2	1	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	14, 15	QFN20(3*3)	0.75mm	0.4mm	Tray	
PT32L007F6P7	32	8	M0	64	1.8-5.5	17+1	1	2	1	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	17, 18	TSSOP20	1.2mm	0.65mm	Tube	
PT32L007F6X7	32	8	M0	64	1.8-5.5	17+1	1	2	1	1	2	1	1	48	32	12ext + 2int	√	√	-40~105	14, 15	QFN20(3*3)	0.75mm	0.4mm	Tray	

PT32 超低功耗系列产品

PT32 Ultra Low Power MCU



PT32L031 选型表

SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	Timer & Counter				Communication Interface			Clock				Analog					Security	Display	Operating Temperature	Package Information		
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O	Adv	Base	Low Power	WDG	UART	I2C	SPI	HSE (MHz)	HSI (MHz)	LSI (kHz)	PLL (mult)	ADC 12-bit	COMP	OPA	PVD	Beep	CRC	LED	°C	Package Types	Pin Pitch	Packing
PT32L031F6P6	32	4	M0	48	1.8-3.6	16	1	2	1	2	2	2	1	4-25	24	32	2	10ext+1int	2路可配	2路可配	√	√	√	4*8	-40~85	TSSOP20	0.65mm	Tube
PT32L031S6U6	32	4	M0	48	1.8-3.6	20	1	2	1	2	2	2	1	4-25	24	32	2	10ext+1int	2路可配	2路可配	√	√	√	3*8	-40~85	QFN24(4*4)	0.5mm	Tray
PT32L031G6P6	32	4	M0	48	1.8-3.6	24	2	2	1	2	2	2	2	4-25	24	32	2	12ext+1int	2路可配	2路可配	√	√	√	4*8	-40~85	TSSOP28	0.65mm	Tube
PT32L031K6T6	32	4	M0	48	1.8-3.6	26	2	2	1	2	2	2	2	4-25	24	32	2	12ext+1int	2路可配	2路可配	√	√	√	4*8	-40~85	LQFP32(7*7)	0.8mm	Tray
PT32L031K6X6	32	4	M0	48	1.8-3.6	26	2	2	1	2	2	2	2	4-25	24	32	2	12ext+1int	2路可配	2路可配	√	√	√	4*8	-40~85	QFN32(4*4)	0.4mm	Tray
PT32L031K6U6	32	4	M0	48	1.8-3.6	26	2	2	1	2	2	2	2	4-25	24	32	2	12ext+1int	2路可配	2路可配	√	√	√	4*8	-40~85	QFN32(5*5)	0.5mm	Tray

PT32L030 选型表

SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO		Timer & Counter					Communication Interface				Clock				Analog				Security	Algorithm	Operating Temperature	Package Information		
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O	DMA	Adv	Gen	Base	Low Power	WDG	UART	I2C	SPI	HSE (MHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	PVD	Beep	CRC		°C	Package Types	Pin Pitch	Pack- -ing
PT32L030G6P7*	32	4	M0	72	1.8-5.5	24	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	TSSOP 28	0.65mm	Tube
PT32L030G8P7*	64	8	M0	72	1.8-5.5	24	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	TSSOP 28	0.65mm	Tube
PT32L030K6X7*	32	4	M0	72	1.8-5.5	26	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	QFN32 (4*4)	0.4mm	Tray
PT32L030K8X7	64	8	M0	72	1.8-5.5	26	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	QFN32 (4*4)	0.4mm	Tray
PT32L030K6T7*	32	4	M0	72	1.8-5.5	26	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	LQFP32 (7*7)	0.8mm	Tray
PT32L030K8T7*	64	8	M0	72	1.8-5.5	26	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	LQFP32 (7*7)	0.8mm	Tray
PT32L030C6T7*	32	4	M0	72	1.8-5.5	40	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	LQFP48 (7*7)	0.5mm	Tray
PT32L030C8T7	64	8	M0	72	1.8-5.5	40	2	1	3	2	1	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40 ~ 105	LQFP48 (7*7)	0.5mm	Tray

* Under Development

PT32L033 选型表

SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO		Timer & Counter				Communication Interface			Clock					Analog					Security	Display	Operating Temperature	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O	Adv	Base	Low Power	WDG	RTC	UART	I2C	SPI	HSE (MHz)	LSE (KHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	DAC 12-bit	PVD	Beep	CRC	LCD	°C	Package Types	Pin Pitch	Pack-aging
PT32L033C6T6*	32	4	M0	48	1.8-3.6	38	2	1	1	2	√	1	0	2	4-25	32.768	8	32	2	7ext+1int	2路可配	2路可配	1	√	√	√	2*18/4*16 6*14/8*12	-40~85	LQFP48 (7*7)	0.5mm	Tray
PT32L033C8T6	64	4	M0	48	1.8-3.6	38	2	1	1	2	√	1	0	2	4-25	32.768	8	32	2	7ext+1int	2路可配	2路可配	1	√	√	√	2*18/4*16 6*14/8*12	-40~85	LQFP48 (7*7)	0.5mm	Tray
PT32L033R6R6*	32	4	M0	48	1.8-3.6	54	2	1	1	2	√	1	1	2	4-25	32.768	8	32	2	7ext+1int	2路可配	2路可配	1	√	√	√	2*30/4*28 6*26/8*24	-40~85	LQFP64 (7*7)	0.4mm	Tray
PT32L033R8R6	64	4	M0	48	1.8-3.6	54	2	1	1	2	√	1	1	2	4-25	32.768	8	32	2	7ext+1int	2路可配	2路可配	1	√	√	√	2*30/4*28 6*26/8*24	-40~85	LQFP64 (7*7)	0.4mm	Tray

* Under Development

PT32L076 选型表

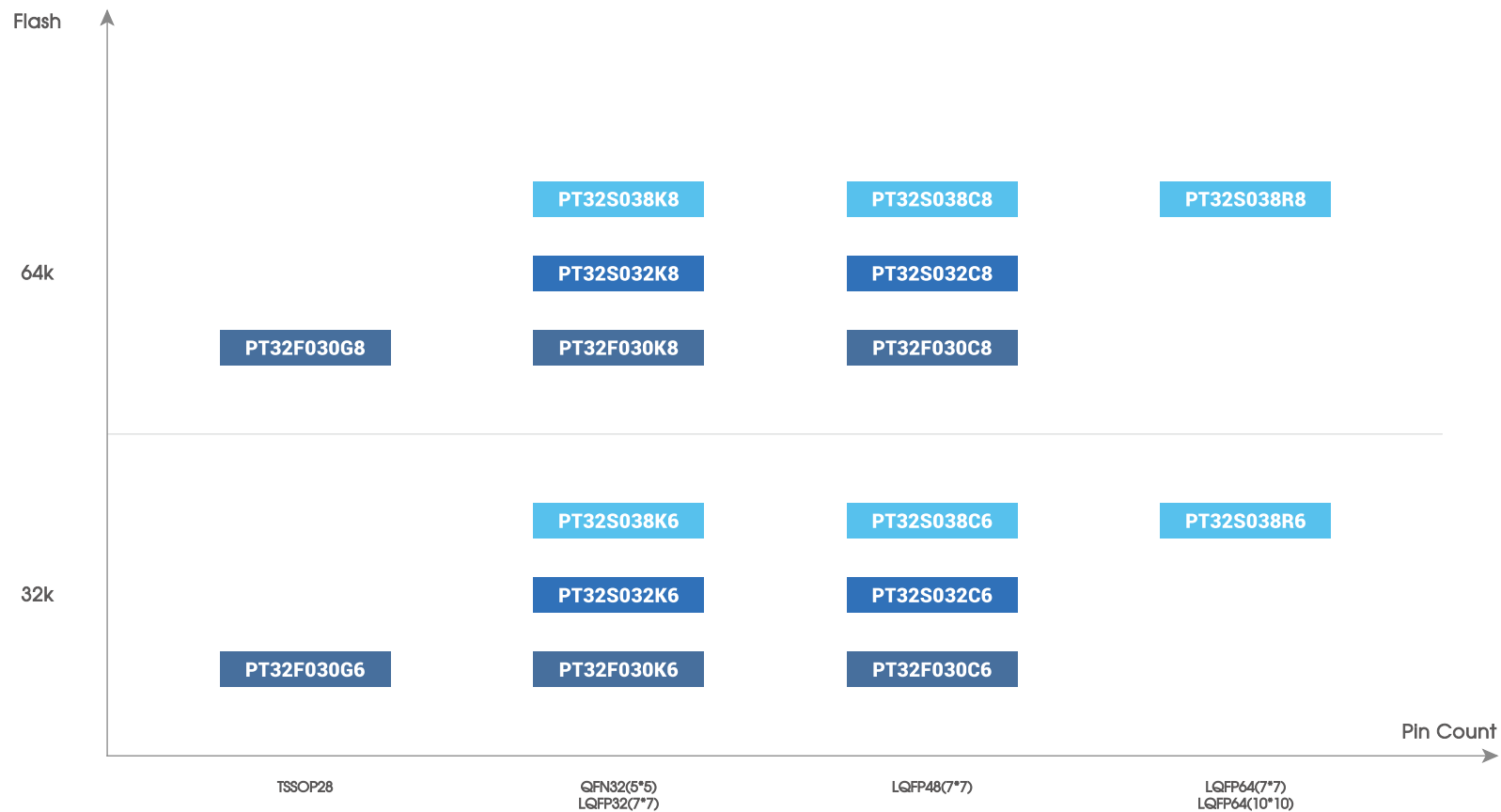
SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	DMA	Timer & Counter					Communication Interface				Clock					Analog					Security		Algorithm	Display	Operating Temperature	Package Information				
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O		Adv	Gen	Base	Low Power	WDG	RTC	UART	LPUART	I2C	SPI	HSE (MHz)	LSE (KHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	DAC 7-bit	PVD	Beep		CRC	AES	LCDD	°C	Package Types	Thickness	Pin Pitch
PT32L076RBT7	128	32	M0	64	1.8-4.2	56	6	1	4	2	2	1	4	2	2	2	4-25	32.768	32	32/38.4	2	26 ext +2 int	4	4	1	√	√	√	128/192/256	乘法、除法	2*42 4*40 6*38 8*36	-40-105	LQFP64 (10*10)	1.6mm	0.5mm	Tray
PT32L076R8T7	64	16	M0	64	1.8-4.2	56	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	26 ext +2 int	4	4	1	√	√	√	128/192/256	乘法、除法	2*42 4*40 6*38 8*36	-40-105	LQFP64 (10*10)	1.6mm	0.5mm	Tray	
PT32L076RBR7	128	32	M0	64	1.8-4.2	56	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	26 ext +2 int	4	4	1	√	√	√	128/192/256	乘法、除法	2*42 4*40 6*38 8*36	-40-105	LQFP64 (7*7)	1.6mm	0.4mm	Tray	
PT32L076R8R7	64	16	M0	64	1.8-4.2	56	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	26 ext +2 int	4	4	1	√	√	√	128/192/256	乘法、除法	2*42 4*40 6*38 8*36	-40-105	LQFP64 (7*7)	1.6mm	0.4mm	Tray	
PT32L076CBT7	128	32	M0	64	1.8-4.2	40	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	20 ext +2 int	3	2	1	√	√	√	128/192/256	乘法、除法	2*28 4*26 6*24 8*22	-40-105	LQFP48 (7*7)	1.6mm	0.5mm	Tray	
PT32L076C8T7	64	16	M0	64	1.8-4.2	40	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	20 ext +2 int	3	2	1	√	√	√	128/192/256	乘法、除法	2*28 4*26 6*24 8*23	-40-105	LQFP48 (7*7)	1.6mm	0.5mm	Tray	
PT32L076KBX7	128	32	M0	64	1.8-4.2	26	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	18 ext +2 int	2	2	1	√	√	√	128/192/256	乘法、除法	2*19 4*17 6*15 8*13	-40-105	QFN32 (4*4)	0.75mm	0.4mm	Tray	
PT32L076K8X7	64	16	M0	64	1.8-4.2	26	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	18 ext +2 int	2	2	1	√	√	√	128/192/256	乘法、除法	2*19 4*17 6*15 8*13	-40-105	QFN32 (4*4)	0.75mm	0.4mm	Tray	
PT32L076KBT7	128	32	M0	64	1.8-4.2	26	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	18 ext +2 int	2	2	1	√	√	√	128/192/256	乘法、除法	2*17 4*15 6*13 8*11	-40-105	LQFP32 (7*7)	1.6mm	0.8mm	Tray	
PT32L076K8T7	64	16	M0	64	1.8-4.2	26	6	1	4	2	2	1	4	2	2	4-25	32.768	32	32/38.4	2	18 ext +2 int	2	2	1	√	√	√	128/192/256	乘法、除法	2*17 4*15 6*13 8*11	-40-105	LQFP32 (7*7)	1.6mm	0.8mm	Tray	

PT32 主流系列产品

PT32 Mainstream MCU



PT32F030 选型表

SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	DMA	Timer & Counter				Communication Interface			Clock				Analog				Security	Algorithm	Operating Temperature	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O		Adv	Gen	Base	WDG	UART	I2C	SPI	HSE (MHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	PVD	Beep		CRC	°C	Package Types	Pin Pitch	Pack- ing
PT32F030G6P7*	32	4	M0	72	2.2-5.5	24	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	TSSOP28	0.65mm	Tube
PT32F030G8P7	64	8	M0	72	2.2-5.5	24	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	TSSOP28	0.65mm	Tube
PT32F030K6U7*	32	4	M0	72	2.2-5.5	26	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	QFN32 (5*5)	0.5mm	Tray
PT32F030K8U7	64	8	M0	72	2.2-5.5	26	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	QFN32 (5*5)	0.5mm	Tray
PT32F030K6T7*	32	4	M0	72	2.2-5.5	26	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	LQFP32 (7*7)	0.8mm	Tray
PT32F030K8T7	64	8	M0	72	2.2-5.5	26	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	LQFP32 (7*7)	0.8mm	Tray
PT32F030C6T7*	32	4	M0	72	2.2-5.5	40	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	LQFP48 (7*7)	0.5mm	Tray
PT32F030C8T7	64	8	M0	72	2.2-5.5	40	2	1	3	2	1	2	2	2	4~25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40-105	LQFP48 (7*7)	0.5mm	Tray

* Under Development

PT32S032 选型表

SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	DMA	Timer & Counter					Communication Interface				Clock				Analog					Security	Algorithm	Operating Temperature	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O		Adv	Gen	Base	LP	WDG	UART	I2C	SPI	CAN	HSE (MHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	DAC 7-bit	PVD	Beep		CRC	°C	Package Types	Pin Pitch	Pack-aging
PT32S032C6T6*	32	16	M0	96	1.8-5.5	38	4	1	3	2	1	2	4	2	2	1	4-25	32	32	32	18ext+2int	3	2	1	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~85	LQFP48 (7*7)	0.5mm	Tray
PT32S032C8T6	64	32	M0	96	1.8-5.5	38	4	1	3	2	1	2	4	2	2	1	4-25	32	32	32	18ext+2int	3	2	1	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~85	LQFP48 (7*7)	0.5mm	Tray
PT32S032K6T6*	32	16	M0	96	1.8-5.5	26	4	1	3	2	1	2	4	2	2	1	4-25	32	32	32	18ext+2int	3	2	1	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~85	LQFP32 (7*7)	0.8mm	Tray
PT32S032K8T6	64	32	M0	96	1.8-5.5	26	4	1	3	2	1	2	4	2	2	1	4-25	32	32	32	18ext+2int	3	2	1	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~85	LQFP32 (7*7)	0.8mm	Tray
PT32S032K6U6*	32	16	M0	96	1.8-5.5	26	4	1	3	2	1	2	4	2	2	1	4-25	32	32	32	18ext+2int	3	2	1	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~85	QFN32 (5*5)	0.5mm	Tray
PT32S032K8U6	64	32	M0	96	1.8-5.5	26	4	1	3	2	1	2	4	2	2	1	4-25	32	32	32	18ext+2int	3	2	1	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~85	QFN32 (5*5)	0.5mm	Tray

* Under Development

PT32S038 选型表

SELECTION GUIDE



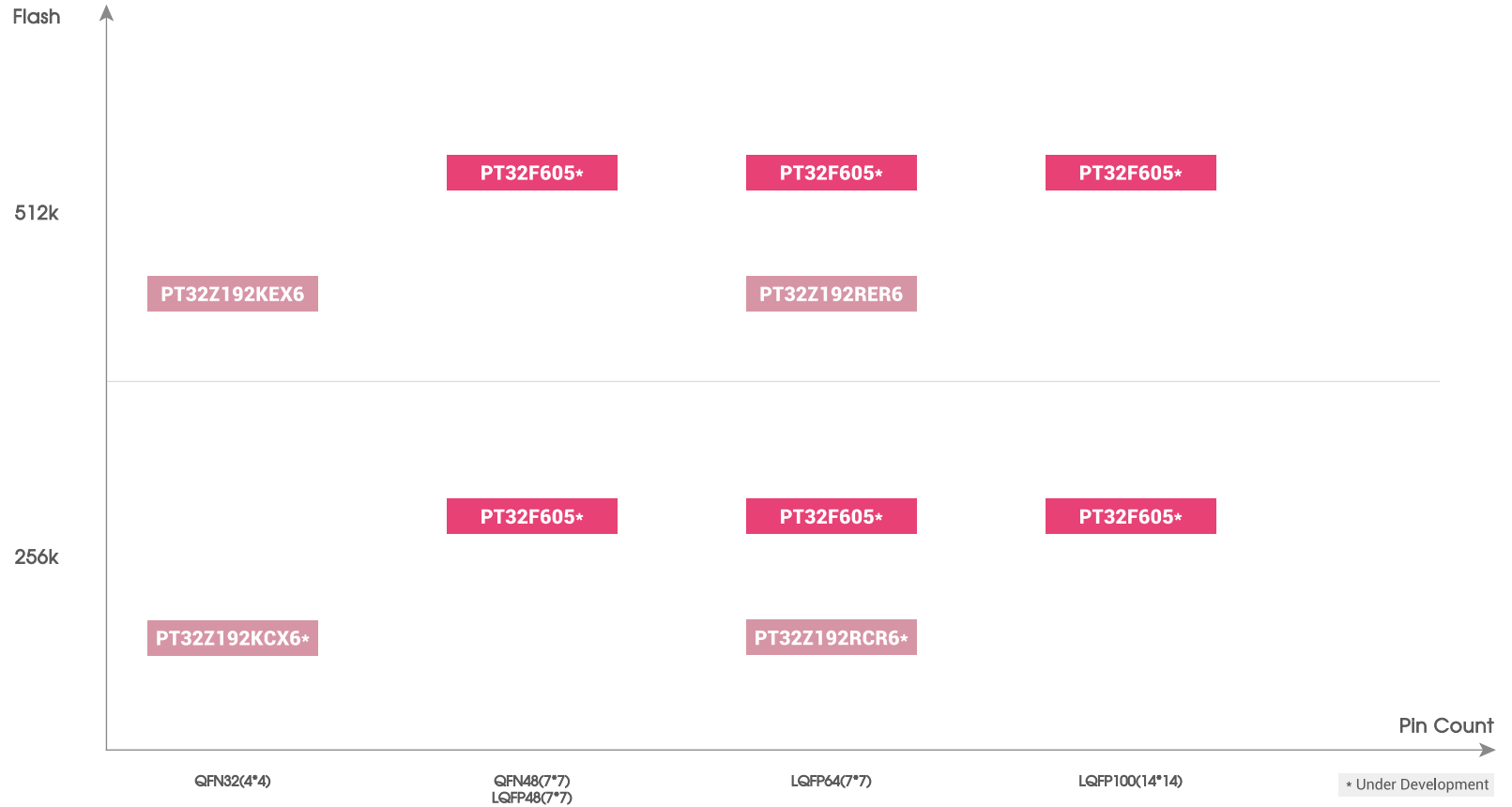
Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	DMA	Timer & Counter					Communication Interface				Clock					Analog					Security	Algorithm	Display	Operating Temperature	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O		Adv	Gen	Base	Low Power	WDG	RTC	UART	I2C	SPI	CAN	HSE (MHz)	LSE (KHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	DAC 7-bit	PVD		Beep	CRC	LC	°C	Package Types	Pin Pitch
PT32S038K6U6*	32	8	M0	184	1.8-5.5	26	6	1	4	2	1	✓	5	2	2	1	4-25	32.768	32	32	32	15 ext +2 int	3	2	1	✓	✓	✓	乘法、除法	2*17 4*15 6*13 8*11	-40~85	QFN32 (5*5)	0.5mm	Tray
PT32S038K8U6	64	16	M0	184	1.8-5.5	26	6	1	4	2	1	✓	5	2	2	1	4-25	32.768	32	32	32	15 ext +2 int	3	2	1	✓	✓	✓	乘法、除法	2*17 4*15 6*13 8*11	-40~85	QFN32 (5*5)	0.5mm	Tray
PT32S038K6T6*	32	8	M0	184	1.8-5.5	26	6	1	4	2	1	✓	5	2	2	1	4-25	32.768	32	32	32	15 ext +2 int	3	2	1	✓	✓	✓	乘法、除法	2*28 4*26 6*24 8*22	-40~85	LQFP32 (7*7)	0.8mm	Tray
PT32S038K8T6	64	16	M0	184	1.8-5.5	26	6	1	4	2	1	✓	5	2	2	1	4-25	32.768	32	32	32	15 ext +2 int	3	2	1	✓	✓	✓	乘法、除法	2*28 4*26 6*24 8*22	-40~85	LQFP32 (7*7)	0.8mm	Tray
PT32S038C6T6*	32	8	M0	184	1.8-5.5	38	6	1	4	2	1	✓	6	2	2	1	4-25	32.768	32	32	32	18 ext +2 int	3	2	1	✓	✓	✓	乘法、除法	2*28 4*26 6*24 8*22	-40~85	LQFP48 (7*7)	0.5mm	Tray
PT32S038C8T6	64	16	M0	184	1.8-5.5	38	6	1	4	2	1	✓	6	2	2	1	4-25	32.768	32	32	32	18 ext +2 int	3	2	1	✓	✓	✓	乘法、除法	2*28 4*26 6*24 8*22	-40~85	LQFP48 (7*7)	0.5mm	Tray
PT32S038R6R6*	32	8	M0	184	1.8-5.5	52	6	1	4	2	1	✓	6	2	2	1	4-25	32.768	32	32	32	26 ext +2 int	4	4	1	✓	✓	✓	乘法、除法	2*42 4*40 6*38 8*36	-40~85	LQFP64 (7*7)	0.4mm	Tray
PT32S038R8R6	64	16	M0	184	1.8-5.5	52	6	1	4	2	1	✓	6	2	2	1	4-25	32.768	32	32	32	26 ext +2 int	4	4	1	✓	✓	✓	乘法、除法	2*42 4*40 6*38 8*36	-40~85	LQFP64 (7*7)	0.4mm	Tray
PT32S038R6T6*	32	8	M0	184	1.8-5.5	52	6	1	4	2	1	✓	6	2	2	1	4-25	32.768	32	32	32	26 ext +2 int	4	4	1	✓	✓	✓	乘法、除法	2*42 4*40 6*38 8*36	-40~85	LQFP64 (10*10)	0.5mm	Tray
PT32S038R8T6	64	16	M0	184	1.8-5.5	52	6	1	4	2	1	✓	6	2	2	1	4-25	32.768	32	32	32	26 ext +2 int	4	4	1	✓	✓	✓	乘法、除法	2*42 4*40 6*38 8*36	-40~85	LQFP64 (10*10)	0.5mm	Tray

程序运行在SRAM最高主频可达184MHz，运行在eFlash可达96MHz

* Under Development

PT32 高性能系列产品

PT32 High Performance MCU



PT32Z192 选型表

SELECTION GUIDE

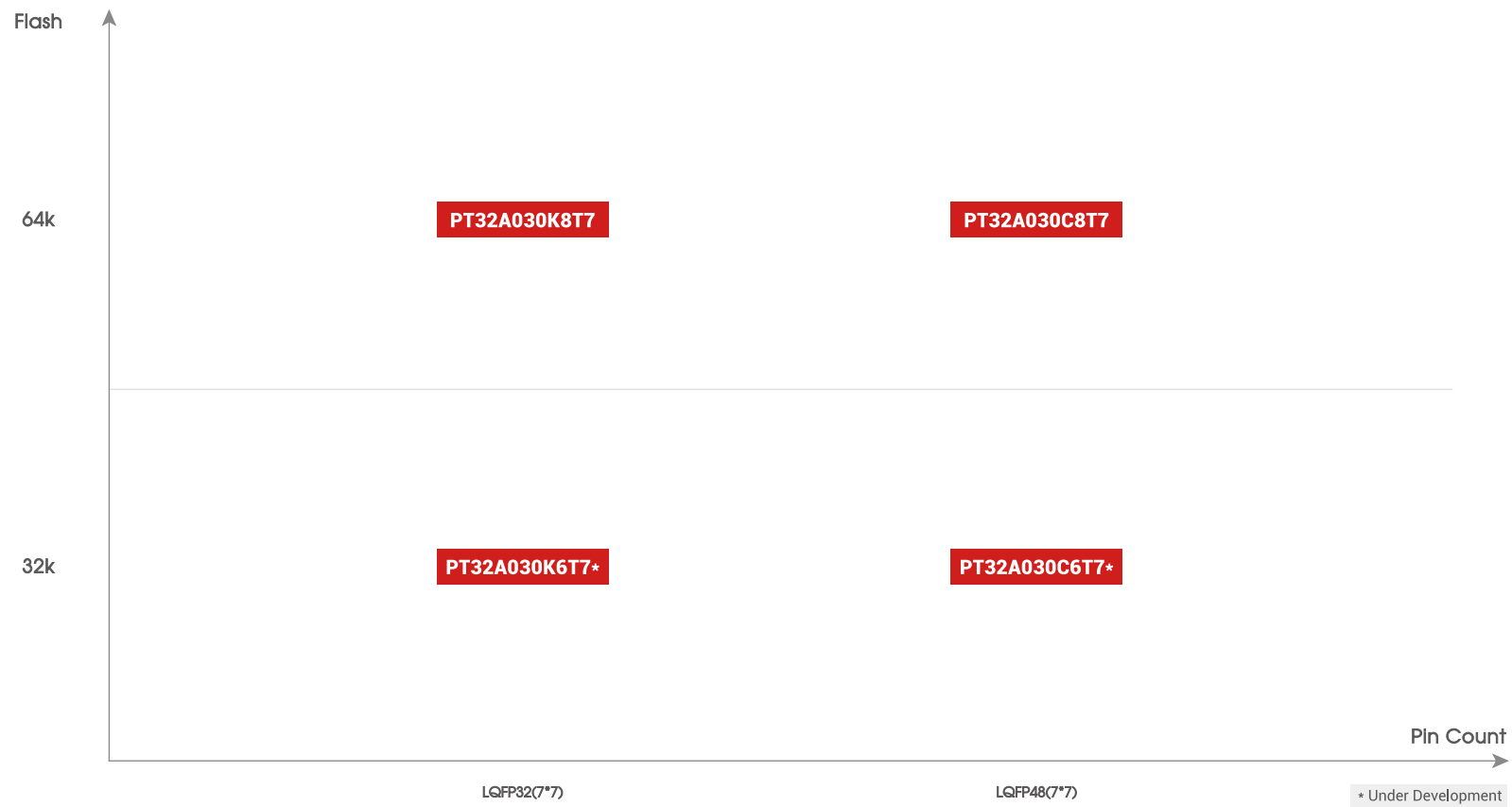


Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO		Timer & Counter				Communication Interface				Clock				Analog		Security		Algorithm	Operating Temperature	Package Information				
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O	DMA	Adv	Base	WDG	RTC	UART	I2C	SPI	QSPI	USB	HSE (MHz)	LSE (KHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	PVD		CRC	AES	°C	Package Types	Pin Pitch	Packing
PT32Z192KEX6	512	128	M3	160	2.7-3.6	21	4	1	4	1	√	2	-	2	1	1	4~32	32.768	24	32	8	2ext+1int	√	√	128/192/256	开方、坐标旋转、三角函数、卷积 (13*13)	-40~85	QFN32 (4*4)	0.4mm	Tray
PT32Z192KCX6*	256	64	M3	160	2.7-3.6	21	4	1	4	1	√	2	-	2	1	1	4~32	32.768	24	32	8	2ext+1int	√	√	128/192/256	开方、坐标旋转、三角函数、卷积 (13*13)	-40~105	QFN32 (4*4)	0.4mm	Tray
PT32Z192RER6	512	128	M3	160	2.7-3.6	51	4	1	4	1	√	3	1	2	1	1	4~32	32.768	24	32	8	6ext+1int	√	√	128/192/256	开方、坐标旋转、三角函数、卷积 (13*13)	-40~85	LQFP64 (7*7)	0.4mm	Tray
PT32Z192RCR6*	256	64	M3	160	2.7-3.6	51	4	1	4	1	√	3	1	2	1	1	4~32	32.768	24	32	8	6ext+1int	√	√	128/192/256	开方、坐标旋转、三角函数、卷积 (13*13)	-40~105	LQFP64 (7*7)	0.4mm	Tray

* Under Development

PT32 车规系列产品

PT32 Automotive Grade MCU



PT32A030 选型表

SELECTION GUIDE



Part Number	Memory		Core	CPU Frequency	Operating Voltage	GPIO	DMA	Timer & Counter				Communication Interface			Clock				Analog				Security	Algorithm	Operating Temperature	Package Information			
	Flash (K)	RAM (K)		MHz	VDD (V)	I/O		Adv	Gen	Base	WDG	UART	I2C	SPI	HSE (MHz)	HSI (MHz)	LSI (KHz)	PLL (mult)	ADC 12-bit	COMP	OPA	PVD	Beep		CRC	°C	Package Types	Pin Pitch	Packing
PT32A030K6T7*	32	4	M0	72	2.2-5.5	26	2	1	3	2	1	2	2	2	4-25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~105	LQFP32 (7*7)	0.8mm	Tray
PT32A030K8T7	64	8	M0	72	2.2-5.5	26	2	1	3	2	1	2	2	2	4-25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~105	LQFP32 (7*7)	0.8mm	Tray
PT32A030C6T7*	32	4	M0	72	2.2-5.5	40	2	1	3	2	1	3	2	2	4-25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~105	LQFP48 (7*7)	0.5mm	Tray
PT32A030C8T7	64	8	M0	72	2.2-5.5	40	2	1	3	2	1	3	2	2	4-25	36	32	2	16ext+2int	3	2	√	√	√	乘法、除法、乘加、开方、CORDIC	-40~105	LQFP48 (7*7)	0.5mm	Tray

* Under Development

高精度ADC PTADN24 选型表

ADC PTADN24



Part Number	Flash (K)	RAM (K)	Core	Vdd	Max. Frequency (MHz)	Internal RC (MHz)	PGA	ADC (24-bit 40~440Ksps)	SPI	I2C	Temp Sensor	I/O	Operating Temperature	Package	Packing
PTADN24E0S6*	2	-	-	2.2~5.5	4	4	√	√	1	1	√	4	-40~85°C	SOP16	Tube

* Under Development

8bit 工规MTP触摸系列选型表

SELECTION GUIDE



Part Number	Memory			Operating Voltage (V)	GPIO I/O (max)	TOUCH (max)	FPPA	Timer & Counter				Clock				Analog					EFT	Algori -thm	Operating Temperature (°C)	Package Information			
	Type	ROM (word)	RAM (byte)					8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	PFG (MHz)	ADC (max)	COMP	OPA	LED	LCD (VDD/2)				LVD	Package Types	Pin Pitch	Packing
PFC161-U06	MTP	2K	128	2.2~5.5	4	3	1	2	1	1	8bitx2	-	16	62	-	-	1	-	-	-	√	超强	-	-40~85	SOT23-6	0.95mm	Tape & Reel
PFC161-S08B	MTP	2K	128	2.2~5.5	6	5	1	2	1	1	8bitx2	-	16	62	-	-	1	-	-	-	√	超强	-	-40~85	SOP8	1.27mm	Tube
PFC161-S08A	MTP	2K	128	2.2~5.5	6	5	1	2	1	1	8bitx2	-	16	62	-	-	1	-	-	-	√	超强	-	-40~85	SOP8	1.27mm	Tube
PFC161-EY10	MTP	2K	128	2.2~5.5	8	7	1	2	1	1	8bitx2	-	16	62	-	-	1	-	-	-	√	超强	-	-40~85	ESSOP10	1.0mm	Tube
PFC460-S08	MTP	4K	512	2.2~5.5	6	5	4	2	1	1	8bitx2/11bitx2	-	16	59	36	12bit (6ch)	1	1	2	3COM*3SEG	√	超强	乘法	-40~85	SOP8	1.27mm	Tube
PFC460-S14	MTP	4K	512	2.2~5.5	12	11	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (12ch)	1	1	3	4COM*8SEG	√	超强	乘法	-40~85	SOP14	1.27mm	Tube
PFC460-S16	MTP	4K	512	2.2~5.5	14	13	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (14ch)	1	1	3	5COM*9SEG	√	超强	乘法	-40~85	SOP16	1.27mm	Tube
PFC460-S20	MTP	4K	512	2.2~5.5	18	17	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (18ch)	1	1	3	5COM*13SEG	√	超强	乘法	-40~85	SOP20	1.27mm	Tube
PFC460-H20*	MTP	4K	512	2.2~5.5	18	17	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (18ch)	1	1	3	5COM*13SEG	√	超强	乘法	-40~85	HTSOP20	1.0mm	Tube
PFC460-T20	MTP	4K	512	2.2~5.5	18	17	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (18ch)	1	1	3	5COM*13SEG	√	超强	乘法	-40~85	TSSOP20	0.65mm	Tube
PFC460-S24*	MTP	4K	512	2.2~5.5	22	20	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (22ch)	1	1	3	5COM*17SEG	√	超强	乘法	-40~85	SOP24	1.27mm	Tube
PFC460-S28	MTP	4K	512	2.2~5.5	26	23	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (26ch)	1	1	3	5COM*21SEG	√	超强	乘法	-40~85	SOP28	1.27mm	Tube
PFC460-T28	MTP	4K	512	2.2~5.5	26	23	4	2	1	1	8bitx2/11bitx3	0.032~4	16	59	36	12bit (26ch)	1	1	3	5COM*21SEG	√	超强	乘法	-40~85	TSSOP28	0.65mm	Tube

* Under Development

8bit 商规OTP触摸系列选型表1

SELECTION GUIDE



Part Number	Memory			Operating Voltage VDD (V)	GPIO I/O (max)	TOUCH (max)	FPPA	Timer & Counter				Clock		Analog			EFT	Operating Temperature °C	Package Information		
	Type	ROM (word)	RAM (byte)					8bit	16bit	WDG	PWM	HSI (MHz)	LSI (KHz)	COMP	LED	LVD			Package Types	Pin Pitch	Packing
P3601	OTP	1.5K	96	2.0-5.5	6	5	1	2	1	1	-	16	44.5	1	-	√	强	-20~70	DFN8(2*2)	0.5mm	Tape & Reel
P3602	OTP	1.5K	96	2.0-5.5	4	3	1	2	1	1	-	16	44.5	1	-	√	强	-20~70	DFN6(2*2)	0.65mm	Tape & Reel
P3605	OTP	1.5K	96	2.0-5.5	4	3	1	2	1	1	-	16	44.5	1	-	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
P3607	OTP	1.5K	96	2.0-5.5	6	5	1	2	1	1	-	16	44.5	1	-	√	强	-20~70	DFN8(2*2)	0.5mm	Tape & Reel
P3608	OTP	1.5K	96	2.0-5.5	6	5	1	2	1	1	-	16	44.5	1	-	√	强	-20~70	SOP8	1.27mm	Tube
P3609	OTP	1.5K	96	2.0-5.5	6	5	1	2	1	1	-	16	44.5	1	-	√	强	-20~70	SOP8	1.27mm	Tube
P3901	OTP	1.75K	128	2.0-5.5	6	5	1	2	1	1	8bitx2	16	61	1	-	√	强	-20~70	DFN8(2*2)	0.5mm	Tape & Reel
P3902	OTP	1.75K	128	2.0-5.5	4	3	1	2	1	1	8bitx1	16	61	1	-	√	强	-20~70	DFN6(2*2)	0.65mm	Tape & Reel
P3903	OTP	1.75K	128	2.0-5.5	14	12	1	2	1	1	8bitx2	16	61	1	-	√	强	-20~70	SOP16	1.27mm	Tube
P3909	OTP	1.75K	128	2.0-5.5	6	4	1	2	1	1	8bitx1	16	61	1	-	√	强	-20~70	SOP8	1.27mm	Tube
P3910	OTP	1.75K	128	2.0-5.5	8	7	1	2	1	1	8bitx2	16	61	1	-	√	强	-20~70	ESSOP10	1.0mm	Tube
PMS160-U06A	OTP	1.5K	96	2.0-5.5	4	4	1	2	1	1	8bitx1/ 11bitx2	16	61	1	2	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PMS160-1N06	OTP	1.5K	96	2.0-5.5	4	4	1	2	1	1	8bitx1/ 11bitx2	16	61	1	2	√	强	-20~70	DFN6(2*2)	0.65mm	Tape & Reel
PMS160-2N08A	OTP	1.5K	96	2.0-5.5	6	6	1	2	1	1	8bitx1/ 11bitx3	16	61	1	3	√	强	-20~70	DFN8(2*2)	0.5mm	Tape & Reel
PMS160-2N08B	OTP	1.5K	96	2.0-5.5	6	6	1	2	1	1	8bitx1/ 11bitx3	16	61	1	3	√	强	-20~70	DFN8(2*2)	0.5mm	Tape & Reel
PMS160-S08A	OTP	1.5K	96	2.0-5.5	6	6	1	2	1	1	8bitx1/ 11bitx3	16	61	1	3	√	强	-20~70	SOP8	1.27mm	Tube
PMS160-S08B	OTP	1.5K	96	2.0-5.5	6	6	1	2	1	1	8bitx1/ 11bitx3	16	61	1	3	√	强	-20~70	SOP8	1.27mm	Tube

8bit 商规OTP触摸系列选型表2

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO	TOUCH (max)	FPPA	Timer & Counter				Clock				Analog			EFT	Algorithm	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)	I/O (max)	8bit		16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	PFG (MHz)	ADC (max)	COMP	LVD	°C			Package Types	Pin Pitch	Packing	
PMS163-U06	OTP	2.5K	160	2.2~5.5	4	3	1	2	1	1	8bitx2/ 11bitx2	-	16	68	-	12bit (3ch)	1	√	强	乘法	-40~85	SOT23-6	0.95mm	Tape & Reel
PMS163-S08	OTP	2.5K	160	2.2~5.5	6	5	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (5ch)	1	√	强	乘法	-40~85	SOP8	1.27mm	Tube
PMS163-M10	OTP	2.5K	160	2.2~5.5	8	7	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (7ch)	1	√	强	乘法	-40~85	MSOP10	0.5mm	Tube
PMS163-4N10	OTP	2.5K	160	2.2~5.5	8	7	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (7ch)	1	√	强	乘法	-40~85	DFN10 (3*3)	0.5mm	Tray
PMS163-S14	OTP	2.5K	160	2.2~5.5	12	11	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (10ch)	1	√	强	乘法	-40~85	SOP14	1.27mm	Tube
PMS163-S16A	OTP	2.5K	160	2.2~5.5	14	13	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (12ch)	1	√	强	乘法	-40~85	SOP16	1.27mm	Tube
PMS163-S16B	OTP	2.5K	160	2.2~5.5	14	13	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (12ch)	1	√	强	乘法	-40~85	SOP16	1.27mm	Tube
PMS163-2J16A*	OTP	2.5K	160	2.2~5.5	14	13	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (12ch)	1	√	强	乘法	-40~85	QFN16 (4*4)	0.65mm	Tray
PMS163-1J16A*	OTP	2.5K	160	2.2~5.5	14	13	1	2	1	1	8bitx2/ 11bitx3	-	16	68	-	12bit (12ch)	1	√	强	乘法	-40~85	QFN16 (3*3)	0.5mm	Tray

* Under Development

8bit 工规MTP系列选型表

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO	FPPA	Timer & Counter				Clock			Analog					EFT	Algori-thm	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)	I/O (max)		8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	COMP	OPA	LCD (VDD/2)	LVD			°C	Package Types	Pin Pitch	Packing
PFC151-S08	MTP	2K	128	2.2~5.5	6	1	2	1	1	8bitx2	0.032~4	16	64	-	1	-	-	√	超强	-	-40~85	SOP8	1.27mm	Tube
PFC151-D08	MTP	2K	128	2.2~5.5	6	1	2	1	1	8bitx2	0.032~4	16	64	-	1	-	-	√	超强	-	-40~85	DIP8	2.54mm	Tube
PFC154-S08	MTP	2K	128	2.2~5.5	6	1	2	1	1	8bitx2/ 11bitx3	0.032~4	16	66	-	1	-	3	√	超强	-	-40~85	SOP8	1.27mm	Tube
PFC154-S14	MTP	2K	128	2.2~5.5	12	1	2	1	1	8bitx2/ 11bitx3	0.032~4	16	66	-	1	-	4	√	超强	-	-40~85	SOP14	1.27mm	Tube
PFC154-S16	MTP	2K	128	2.2~5.5	14	1	2	1	1	8bitx2/ 11bitx3	0.032~4	16	66	-	1	-	4	√	超强	-	-40~85	SOP16	1.27mm	Tube
PFC154-D08	MTP	2K	128	2.2~5.5	6	1	2	1	1	8bitx2/ 11bitx3	0.032~4	16	66	-	1	-	3	√	超强	-	-40~85	DIP8	2.54mm	Tube
PFC154-D14	MTP	2K	128	2.2~5.5	12	1	2	1	1	8bitx2/ 11bitx3	0.032~4	16	66	-	1	-	4	√	超强	-	-40~85	DIP14	2.54mm	Tube
PFC154-D16	MTP	2K	128	2.2~5.5	14	1	2	1	1	8bitx2/ 11bitx3	0.032~4	16	66	-	1	-	4	√	超强	-	-40~85	DIP16	2.54mm	Tube
PFC232-S08	MTP	2K	128	2.2~5.5	6	2	2	1	1	8bitx2/ 11bitx2	0.032~4	16	60	12bit (5ch)	1	1	2	√	超强	乘法	-40~85	SOP8	1.27mm	Tube
PFC232-S14	MTP	2K	128	2.2~5.5	12	2	2	1	1	8bitx2/ 11bitx3	0.032~4	16	60	12bit (10ch)	1	1	5	√	超强	乘法	-40~85	SOP14	1.27mm	Tube
PFC232-S16	MTP	2K	128	2.2~5.5	14	2	2	1	1	8bitx2/ 11bitx3	0.032~4	16	60	12bit (12ch)	1	1	5	√	超强	乘法	-40~85	SOP16	1.27mm	Tube
PFC232-D08	MTP	2K	128	2.2~5.5	6	2	2	1	1	8bitx2/ 11bitx2	0.032~4	16	60	12bit (5ch)	1	1	2	√	超强	乘法	-40~85	DIP8	2.54mm	Tube
PFC232-D14	MTP	2K	128	2.2~5.5	12	2	2	1	1	8bitx2/ 11bitx3	0.032~4	16	60	12bit (10ch)	1	1	5	√	超强	乘法	-40~85	DIP14	2.54mm	Tube
PFC232-D16*	MTP	2K	128	2.2~5.5	14	2	2	1	1	8bitx2/ 11bitx3	0.032~4	16	60	12bit (12ch)	1	1	5	√	超强	乘法	-40~85	DIP16	2.54mm	Tube

* Under Development

8bit 工规OTP系列选型表1

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO I/O (max)	FPPA	Timer & Counter				Clock			Analog			EFT	Algorithm	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)			8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	LCD (VDD/2)	LVD			°C	Package Types	Pin Pitch	Packing
PMC150-S08	OTP	1K	60	2.2~5.5	6	1	-	1	1	-	-	16	37	-	-	√	超强	-	-40~85	SOP8	1.27mm	Tube
PMC153-S14	OTP	1K	64	2.2~5.5	12	1	-	1	1	-	-	16	35	-	-	√	超强	-	-40~85	SOP14	1.27mm	Tube
PMC156-S16	OTP	1K	64	2.2~5.5	14	1	-	1	1	-	0.032~4	16	37	-	4	√	超强	-	-40~85	SOP16	1.27mm	Tube
PMC251-S08	OTP	1K	60	2.2~5.5	6	2	-	1	1	-	0.032~4	16	24	-	-	√	超强	-	-40~85	SOP8	1.27mm	Tube
PMC251-S14	OTP	1K	60	2.2~5.5	12	2	-	1	1	-	0.032~4	16	24	-	-	√	超强	-	-40~85	SOP14	1.27mm	Tube
PMC271-S08	OTP	1K	64	2.2~5.5	6	2	-	1	1	-	0.032~4	16	24	8bit (3ch)	2	√	超强	-	-40~85	SOP8	1.27mm	Tube
PMC271-S14	OTP	1K	64	2.2~5.5	12	2	-	1	1	-	0.032~4	16	24	8bit (6ch)	4	√	超强	-	-40~85	SOP14	1.27mm	Tube
PMC271-S16	OTP	1K	64	2.2~5.5	14	2	-	1	1	-	0.032~4	16	24	8bit (7ch)	4	√	超强	-	-40~85	SOP16	1.27mm	Tube
PMC131-S08A	OTP	1.5K	88	2.2~5.5	6	1	2	1	1	8bit x 2	-	16	24	12bit (5ch)	-	√	超强	乘法	-40~85	SOP8	1.27mm	Tube
PMC131-S08B	OTP	1.5K	88	2.2~5.5	6	1	2	1	1	8bit x 1	0.032~4	16	24	12bit (4ch)	-	√	超强	乘法	-40~85	SOP8	1.27mm	Tube
PMC131-S14	OTP	1.5K	88	2.2~5.5	12	1	2	1	1	8bit x 2	0.032~4	16	24	12bit (10ch)	-	√	超强	乘法	-40~85	SOP14	1.27mm	Tube
PMC131-S16	OTP	1.5K	88	2.2~5.5	14	1	2	1	1	8bit x 2	0.032~4	16	24	12bit (12ch)	-	√	超强	乘法	-40~85	SOP16	1.27mm	Tube

8bit 工规OTP系列选型表2

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO I/O (max)	FPPA	Timer & Counter				Clock			Analog				EFT	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)			8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	COMP	LCD (VDD/2)	LVD		°C	Package Types	Pin Pitch	Packing
PMC232-S14	OTP	2K	208	2.2~5.5	12	2	2	1	1	8bit x 1	0.032~4	16	24	12bit (7ch)	-	4	√	超强	-40~85	SOP14	1.27mm	Tube
PMC232-S16	OTP	2K	208	2.2~5.5	14	2	2	1	1	8bit x 1	0.032~4	16	24	12bit (8ch)	-	4	√	超强	-40~85	SOP16	1.27mm	Tube
PMC232-S20	OTP	2K	208	2.2~5.5	18	2	2	1	1	8bit x 1	0.032~4	16	24	12bit (10ch)	-	4	√	超强	-40~85	SOP20	1.27mm	Tube
PMC232-H20	OTP	2K	208	2.2~5.5	18	2	2	1	1	8bit x 1	0.032~4	16	24	12bit (10ch)	-	4	√	超强	-40~85	HTSOP20	1.0mm	Tube
PMC234-S14	OTP	4K	208	2.2~5.5	12	2	1	1	1	8bit x 1	0.032~4	16	24	12bit (12ch)	1	4	√	超强	-40~85	SOP14	1.27mm	Tube
PMC234-S16	OTP	4K	208	2.2~5.5	14	2	1	1	1	8bit x 1	0.032~4	16	24	12bit (12ch)	1	4	√	超强	-40~85	SOP16	1.27mm	Tube
PMC234-S20	OTP	4K	208	2.2~5.5	18	2	1	1	1	8bit x 1	0.032~4	16	24	12bit (11ch)	1	4	√	超强	-40~85	SOP20	1.27mm	Tube
PMC234-H20*	OTP	4K	208	2.2~5.5	18	2	1	1	1	8bit x 1	0.032~4	16	24	12bit (11ch)	1	4	√	超强	-40~85	HTSOP20	1.0mm	Tube
PMC234-Y24	OTP	4K	208	2.0~5.5	22	2	1	1	1	8bit x 1	0.032~4	16	24	12bit (11ch)	1	4	√	超强	-40~85	SSOP24	0.635mm	Tube

* Under Development

8bit 商规MTP系列选型表1

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO	FPPA	Timer & Counter				Clock			Analog				EFT	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)	I/O (max)		8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	COMP	LCD (VDD/2)	LVD		°C	Package Types	Pin Pitch	Packing
PFS154-U06	MTP	2K	128	2.2~5.5	4	1	2	1	1	8bit x 2/ 11bit x 2	-	16	55	-	1	2	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PFS154-S08	MTP	2K	128	2.2~5.5	6	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	55	-	1	3	√	强	-20~70	SOP8	1.27mm	Tube
PFS154-S14	MTP	2K	128	2.2~5.5	12	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	55	-	1	4	√	强	-20~70	SOP14	1.27mm	Tube
PFS154-S16	MTP	2K	128	2.2~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	55	-	1	4	√	强	-20~70	SOP16	1.27mm	Tube
PFS122-U06	MTP	2K	128	1.8~5.5	4	1	2	1	1	8bit x 2	-	16	56	12bit (3ch)	1	-	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PFS122-S08	MTP	2K	128	1.8~5.5	6	1	2	1	1	8bit x 2	-	16	56	12bit (5ch)	1	-	√	强	-20~70	SOP8	1.27mm	Tube
PFS122-S14	MTP	2K	128	1.8~5.5	12	1	2	1	1	8bit x 2	0.032~4	16	56	12bit (10ch)	1	-	√	强	-20~70	SOP14	1.27mm	Tube
PFS122-S16	MTP	2K	128	1.8~5.5	14	1	2	1	1	8bit x 2	0.032~4	16	56	12bit (12ch)	1	-	√	强	-20~70	SOP16	1.27mm	Tube
PFS172-S08	MTP	2K	128	1.8~5.5	6	1	2	1	1	8bit x 2	0.032~4	16	56	8bit (5ch)	1	-	√	强	-20~70	SOP8	1.27mm	Tube
PFS172-S14	MTP	2K	128	1.8~5.5	12	1	2	1	1	8bit x 2	0.032~4	16	56	8bit (10ch)	1	-	√	强	-20~70	SOP14	1.27mm	Tube
PFS172-S16A	MTP	2K	128	1.8~5.5	14	1	2	1	1	8bit x 2	0.032~4	16	56	8bit (12ch)	1	-	√	强	-20~70	SOP16	1.27mm	Tube

8bit 商规MTP系列选型表2

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO	FPPA	Timer & Counter				Clock			Analog				EFT	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)	I/O (max)		8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	COMP	LCD (VDD/2)	LVD		°C	Package Types	Pin Pitch	Packing
PFS173-U06	MTP	3K	256	2.2~5.5	4	1	2	1	1	8bit x 2/ 11bit x 3	-	16	93	8bit (3ch)	1	-	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PFS173-S08	MTP	3K	256	2.2~5.5	6	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	8bit (4ch)	1	-	√	强	-20~70	SOP8	1.27mm	Tube
PFS173-S14	MTP	3K	256	2.2~5.5	12	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	8bit (10ch)	1	5	√	强	-20~70	SOP14	1.27mm	Tube
PFS173-S16	MTP	3K	256	2.2~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	8bit (12ch)	1	5	√	强	-20~70	SOP16	1.27mm	Tube
PFS173-H20	MTP	3K	256	2.2~5.5	18	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	8bit (14ch)	2	5	√	强	-20~70	HTSOP20	1.0mm	Tube
PFS123-U06	MTP	3K	256	2.2~5.5	4	1	2	1	1	8bit x 2/ 11bit x 3	-	16	93	12bit (3ch)	1	-	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PFS123-S08	MTP	3K	256	2.2~5.5	6	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	12bit (4ch)	1	-	√	强	-20~70	SOP8	1.27mm	Tube
PFS123-S14	MTP	3K	256	2.2~5.5	12	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	12bit (10ch)	1	5	√	强	-20~70	SOP14	1.27mm	Tube
PFS123-S16	MTP	3K	256	2.2~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	12bit (12ch)	1	5	√	强	-20~70	SOP16	1.27mm	Tube
PFS123-H20*	MTP	3K	256	2.2~5.5	18	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	93	12bit (14ch)	2	5	√	强	-20~70	HTSOP20	1.0mm	Tube

* Under Development

8bit 商規OTP系列选型表1

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO	FPPA	Timer & Counter				Clock			Analog				EFT	Operating Temperature	Package Information			
	Type	ROM (word)	RAM (byte)	VDD (V)	I/O (max)		8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	COMP	LED	LCD (VDD/2)		LVD	°C	Package Types	Pin Pitch	Packing
PMS15A-U06	OTP	0.5K	64	2.2~5.5	4	1	1	1	1	8bit x 1	-	16	59	-	1	-	-	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PMS15A-S08	OTP	0.5K	64	2.2~5.5	6	1	1	1	1	8bit x 1	-	16	59	-	1	-	-	√	强	-20~70	SOP8	1.27mm	Tube
PMS150G-S08	OTP	1K	64	1.8~5.5	6	1	-	1	1	8bit x 1	-	16	57	-	1	-	-	√	强	-20~70	SOP8	1.27mm	Tube
PMS152-S08	OTP	1.25K	80	1.8~5.5	6	1	1	1	1	8bit x 1/ 11bit x 3	0.032~4	16	55	-	1	3	-	√	强	-20~70	SOP8	1.27mm	Tube
PMS152-S14	OTP	1.25K	80	1.8~5.5	12	1	1	1	1	8bit x 1/ 11bit x 3	0.032~4	16	55	-	1	3	-	√	强	-20~70	SOP14	1.27mm	Tube
PMS152-S16	OTP	1.25K	80	1.8~5.5	14	1	1	1	1	8bit x 1/ 11bit x 3	0.032~4	16	55	-	1	3	-	√	强	-20~70	SOP16	1.27mm	Tube
PMS154C-U06	OTP	2K	128	1.8~5.5	4	1	2	1	1	8bit x 2/ 11bit x 2	-	16	70	-	1	2	1	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PMS154C-S08	OTP	2K	128	1.8~5.5	6	1	2	1	1	8bit x 2/ 11bit x 2	0.032~4	16	70	-	1	2	2	√	强	-20~70	SOP8	1.27mm	Tube
PMS154C-S14	OTP	2K	128	1.8~5.5	12	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	70	-	1	3	4	√	强	-20~70	SOP14	1.27mm	Tube
PMS154C-S16	OTP	2K	128	1.8~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	70	-	1	3	4	√	强	-20~70	SOP16	1.27mm	Tube
PMS171B-U06*	OTP	1.5K	96	1.8~5.5	4	1	2	1	1	8bit x 2	-	16	50	8bit (2ch)	1	-	-	√	强	-20~70	SOT23-6	0.95mm	Tape & Reel
PMS171B-S08	OTP	1.5K	96	1.8~5.5	6	1	2	1	1	8bit x 2	0.032~4	16	50	8bit (4ch)	1	-	-	√	强	-20~70	SOP8	1.27mm	Tube
PMS171B-S14	OTP	1.5K	96	1.8~5.5	12	1	2	1	1	8bit x 2	0.032~4	16	50	8bit (11ch)	1	-	-	√	强	-20~70	SOP14	1.27mm	Tube
PMS171B-S16	OTP	1.5K	96	1.8~5.5	14	1	2	1	1	8bit x 2	0.032~4	16	50	8bit (11ch)	1	-	-	√	强	-20~70	SOP16	1.27mm	Tube

* Under Development

8bit 商規OTP系列选型表2

SELECTION GUIDE



Part Number	Memory			Operating Voltage	GPIO	FPPA	Timer & Counter				Clock			Analog					EFT	Algorithm	Operating Temperature	Package Information		
	Type	ROM (word)	RAM (byte)	VDD (V)	I/O (max)		8bit	16bit	WDG	PWM	HSE (MHz)	HSI (MHz)	LSI (KHz)	ADC (max)	COMP	LED	LCD (VDD/2)	LVD			°C	Package Types	Pin Pitch	Packing
PMS132-S08	OTP	2K	128	2.2~5.5	6	1	2	1	1	8bit x 2/ 11bit x 2	-	16	55	12bit (5ch)	1	-	-	√	强	乘法	-20~70	SOP8	1.27mm	Tube
PMS132-S14	OTP	2K	128	2.2~5.5	12	1	2	1	1	8bit x 2/ 11bit x 2	0.032~4	16	55	12bit (10ch)	1	-	-	√	强	乘法	-20~70	SOP14	1.27mm	Tube
PMS132-S16A	OTP	2K	128	2.2~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	55	12bit (12ch)	1	-	-	√	强	乘法	-20~70	SOP16	1.27mm	Tube
PMS133-U06	OTP	3K	256	2.2~5.5	4	1	2	1	1	8bit x 2/ 11bit x 2	-	16	63	12bit (3ch)	1	2	2	√	强	乘法	-20~70	SOT23-6	0.95mm	Tape & Reel
PMS133-U08	OTP	3K	256	2.2~5.5	6	1	2	1	1	8bit x 2/ 11bit x 2	-	16	63	12bit (5ch)	1	2	3	√	强	乘法	-20~70	SOP8	1.27mm	Tube
PMS133-S14	OTP	3K	256	2.2~5.5	12	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	63	12bit (10ch)	1	3	4	√	强	乘法	-20~70	SOP14	1.27mm	Tube
PMS133-S16	OTP	3K	256	2.2~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	63	12bit (12ch)	1	3	4	√	强	乘法	-20~70	SOP16	1.27mm	Tube
PMS134-U06	OTP	4K	256	2.2~5.5	4	1	2	1	1	8bit x 2/ 11bit x 2	-	16	63	12bit (3ch)	1	2	2	√	强	乘法	-20~70	SOT23-6	0.95mm	Tape & Reel
PMS134-S08	OTP	4K	256	2.2~5.5	6	1	2	1	1	8bit x 2/ 11bit x 2	-	16	63	12bit (5ch)	1	2	3	√	强	乘法	-20~70	SOP8	1.27mm	Tube
PMS134-S14	OTP	4K	256	2.2~5.5	12	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	63	12bit (10ch)	1	3	4	√	强	乘法	-20~70	SOP14	1.27mm	Tube
PMS134-S16	OTP	4K	256	2.2~5.5	14	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	63	12bit (12ch)	1	3	4	√	强	乘法	-20~70	SOP16	1.27mm	Tube
PMS134-H20+	OTP	4K	256	2.2~5.5	18	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	63	12bit (14ch)	1	3	4	√	强	乘法	-20~70	HTSOP20	1.0mm	Tube
PMS134-Y24	OTP	4K	256	2.2~5.5	22	1	2	1	1	8bit x 2/ 11bit x 3	0.032~4	16	63	12bit (14ch)	1	3	4	√	强	乘法	-20~70	SSOP24	0.635mm	Tube

* Under Development

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