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Date: January 13, 2020 www.cypress.com/psoc4

NEW PRODUCT ALERT! PSoC 4500 Microcontrollers

Arm Cortex-M0+ solution with Enhanced Compute and Analog

PSoC 4500 family provides an enhanced PSoC 4 solution for applications like motor control with high-efficient and low-cost ARM Cortex-M0+ and dedicated hardware accelerator for mathematics calculations (division and square-root). It also features a flexible and integrated Analog subsystem with two 12-bit 1Msps SAR ADCs, multiple opamps and comparators. PSoC 4500 offers a high-performance and low-cost solution for applications which require high compute performance and rich analog integration.

The PSoC 4500 provides:

- 48-MHz Arm Cortex-M0+ CPU with 8 DMA channels
- Up to 256KB Flash and 32KB SRAM
- Two accelerators for Divide/Square-Root compute
- External MHz crystal oscillator with PLL option
- Two 12-bit, 1-Msps SAR ADCs

- CapSense with two 7-bit IDACs
- Eight TCPWM blocks and five SCB blocks
- Three Opamps and two LP Comparators
- Up to 53 GPIOs, including 16 Smart I/Os
- 48-TQFP and 64-TQFP (0.5mm and 0.8mm pitch) packages

Call to Action:

- Learn more about PSoC 4, visit <u>www.cypress.com/psoc4</u>
- Setup the PSoC 4500 part numbers in your system to help speed up the ordering process
- Please contact Luke Jiao (jiao@cypress.com) if you have any question or potential opportunities

Ordering Information

Category	Marketing Part Number	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	SAR ADC Sample Rate	48-TQFP	64-TQFP (0.5mm	64-TQFP (0.8mm pitch)	Registerable	Pack Type	МОФ	QI	Availability
45x6	CY8C4546AZI-S473	48	64	16	1 Msps	Χ			Υ	TRAY	250	250	Late April
	CY8C4546AZI-S475	48	64	16	1 Msps		Χ		Υ	TRAY	160	160	Late April
	CY8C4546AXI-S475	48	64	16	1 Msps			Χ	Υ	TRAY	180	180	Late April
45x7	CY8C4547AZI-S453	48	128	32	1 Msps	X			Υ	TRAY	250	250	Late April
	CY8C4547AZI-S455	48	128	32	1 Msps		Χ		Υ	TRAY	160	160	Late April
	CY8C4547AZI-S463	48	128	32	1 Msps	X			Υ	TRAY	250	250	Late April
	CY8C4547AZI-S465	48	128	32	1 Msps		Χ		Υ	TRAY	160	160	Late April
	CY8C4547AZI-S473	48	128	32	1 Msps	Х			Υ	TRAY	250	250	ES samples NOW
	CY8C4547AZI-S475	48	128	32	1 Msps		Χ		Υ	TRAY	160	160	ES samples NOW
	CY8C4547AXI-S475	48	128	32	1 Msps			Χ	Υ	TRAY	180	180	Mid-February
45x8	CY8C4548AZI-S475	48	256	32	1 Msps		Χ		Υ	TRAY	160	160	Mid-February
	CY8C4548AXI-S475	48	256	32	1 Msps			Χ	Υ	TRAY	180	180	Late April
	CY8C4548AZI-S483	48	256	32	1 Msps	Χ			Υ	TRAY	250	250	Mid-February
	CY8C4548AZI-S485	48	256	32	1 Msps		Χ		Υ	TRAY	160	160	Mid-February
	CY8C4548AXI-S485	48	256	32	1 Msps			X	Υ	TRAY	180	180	ES samples NOW

Price Book and SFDC is the official Price Contract

Applications:

- Home Appliance
- Motor control
- Consumer
- Industrial

Silicon Logistic Attributes:

• HTS Code: 8542.31.0001

PB Free: Yes

ECCN All: 3A991.A.2RoHS Compliant: Yes

Country of Origin: Taiwan



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Sample Order Entry:

• ES Silicon available: NOW, refer to Ordering Information Table

Production Order Entry: February and April respectively, refer to Ordering Information Table

General Information: (Please CLICK on the links to access information)

• Datasheet: Preliminary PSoC 4500 datasheet

• Press Release: Coming Soon

PSoC 4 Portfolio New Product Introduction (NPI)

• PSoC 4 page: www.cypress.com/psoc4

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