CY8C4126AZA-M445T

Status: **In Production**

Product Specs	Pricing & Inventory	Packaging/Ordering	Quality and RoHS	Technical Documents

CY8C4126AZA-M445T

Automotive Qualified	Y
CPU Core	ARM Cortex-M0
CapSense	Y
Dedicated ADC (#Max Resolution @ Sample Rate)	SAR (1, 12-bit @ 806 ksps)
EEPROM (KB)	0
Flash (KB)	64
JTAG and SI ID	0x11B3
LCD Direct Drive	Y
Max. Operating Frequency (MHz)	24
Max. Operating Temp. (°C)	85
Max. Operating Voltage (V)	5.50
Min. Operating Temp. (°C)	-40
Min. Operating Voltage (V)	1.71
No. of CAN Controllers	0
No. of Continuous Time Blocks	1
No. of DMA Channels	8
No. of Dedicated Comparators	2
No. of Dedicated Timer/Counter/PWM Blocks	8
No. of GPIOs	51
No. of Op Amps	2
No. of SIO	0
No. of Serial Communication Blocks	4
No. of USB IO	0
No. of Universal Analog Blocks	0
No. of Universal Digital Blocks	0
PLL	N
SRAM (KB)	8
Series	PSoC 4100M
Tape & Reel	Y
USB (Type)	None

PRICING & INVENTORY AVAILABILITY

1-9 unit Price*	10-24 unit Price*	25-99 unit Price*	100-249 unit Price*	250-999 unit Price*	1000+ unit Price*
		Contact Sales			

Availability	Quantity	Ships In	Buy from Cypress	Buy from Distributors
Out of Stock	0	Please click here to check lead times	Contact Sales	Contact Sales

* Prices are shown in United States dollars and are for budgetary use only for volume of 1ku

PACKAGING/ORDERING

Package	TQFP
No. of Pins	44
Package Dimensions	393 L x 1.4 H x 393 W (Mils)
Package Weight	338.95 (mgs)
Package Cross Section Drawing	Download
Package Carrier	REEL
Standard Pack Quantity	1500
Minimum Order Quantity (MOQ)	1500
Order Increment	1500
Estimated Lead Time (days)	91
HTS Code	8542.31.0001
ECCN	(A.3)
ECCN Suball	3A991

QUALITY AND ROHS

Moisture Sensitivity Level (MSL)	3
Peak Reflow Temp. (°C)	260 (Cypress Reflow Profile)
RoHS Compliant	Y Print RoHS Certificate of Compliance
PB Free	Y
Lead/Ball Finish	Ni/Pd/Au
Marking	Cypress Marking Format

IPC 1752 Material Declaration

IPC1752 MATERIAL DECLARATION TQFP64 (10X10 mm) (AZ64)_ASEK_Au WIRE_PURE Sn_HENKEL 8340_HITACHI CEL9200THF Last Update: Oct 30, 2019

Device Qualification Reports

FIT/MTBF, ESD (HBM/CDM) and Latch-up data available in the Device Qualification Report.

QTP#162707: AUTOMOTIVE PSoC 4100M and PSoC 4200M DEVICE FAMILY S8PFHD-10P, FAB25 (AL BEOL INTERCONNECT).pdf Last Update: Mar 06, 2019

TECHNICAL DOCUMENTS

Application Notes (17)

AN84858 - PSoC®4 Programming Using an External Microcontroller (HSSP) Jan 19, 2020
AN93637 - PSoC® 4 Sensorless Field-Oriented Control (FOC) Dec 30, 2019
AN82156 - PSoC® 3, PSoC 4, and PSoC 5LP - Designing PSoC Creator™ Components With UDB Datapaths Oct 02, 2019
AN82250 - PSoC Creator - Implementing Programmable Logic Designs with Verilog Sep 22, 2019
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