

## CY8C4126AZA-M445T

Status: In Production



| Product Specs                                 | Pricing & Inventory         | Packaging/Ordering | Quality and RoHS | Technical Documents   |
|---|-----------------------------|--------------------|------------------|---|
| <b>CY8C4126AZA-M445T</b>                      |                             |                    |                  | <b>DESIGN SUPPORT</b>   |
| Automotive Qualified                          | Y                           |                    |                  | <a href="#">Development Kits</a><br><a href="#">Forums</a><br><a href="#">Knowledge Base</a><br><a href="#">Packaging</a><br><a href="#">Product Brochures</a><br><a href="#">Quality &amp; Reliability</a><br><a href="#">Samples</a><br><a href="#">Technical Support</a><br><a href="#">Technical Training</a><br><a href="#">Third Party Network (CYPros)</a> |
| CPU Core                                      | ARM Cortex-M0               |                    |                  |   |
| CapSense                                      | Y                           |                    |                  |   |
| Dedicated ADC (#Max Resolution @ Sample Rate) | SAR (1, 12-bit @ 806 ksp/s) |                    |                  |   |
| EEPROM (KB)                                   | 0                           |                    |                  |   |
| Flash (KB)                                    | 64                          |                    |                  |   |
| JTAG and SI ID                                | 0x1183                      |                    |                  |   |
| 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        | <a href="#">Please click here to check lead times</a> | <a href="#">Contact Sales</a> | <a href="#">Contact Sales</a> |

\* 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 | <a href="#">Download</a>     |
| 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                 |
| <b>IPC 1752 Material Declaration</b>  |  |
| IPC 1752 MATERIAL DECLARATION TQFP64 (10X10 mm) (AZ64)_ASEK_Au WIRE_PURE Sn_HENKEL 8340_HITACHI CEL9200THF Last Update: Oct 30, 2019  |  |
| <b>Device Qualification Reports</b>   |  |
| 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 SBPFHD-10P, FAB25 (AL BEOL INTERCONNECT).pdf Last Update: Mar 06, 2019 |  |

| TECHNICAL DOCUMENTS  |
|--|
| <b>Application Notes (17)</b>  |
| AN84858 - PSoC@4 Programming Using an External Microcontroller (H5SP) 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                   |
| <a href="#">Show More</a>  |

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#### CORPORATE HEADQUARTERS

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#### CUSTOMER SERVICE SUPPORT

+1-800-541-4736  
Hours:  
8:00AM - 5:00PM (local time)  
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