



## CY8C21312-12PVXET Status: In Production

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### CY8C21312-12PVXET

|                                    |                           |
|------------------------------------|---------------------------|
| Development Kit                    | CY3213A-DK, CY3212-20SSOP |
| LCD Direct Drive                   | N                         |
| PWMs                               | HW                        |
| CPU Core                           | M8C                       |
| Max. Operating Frequency (MHz)     | 12                        |
| Automotive Qualified               | Y                         |
| CapSense                           | Y                         |
| Min. Operating Voltage (V)         | 3.00                      |
| Max. Operating Voltage (V)         | 5.25                      |
| Min. Operating Temp. (°C)          | -40                       |
| Max. Operating Temp. (°C)          | 125                       |
| No. of Dedicated Comparators       | 0                         |
| No. of GPIOs                       | 16                        |
| No. of Programmable Digital Blocks | 1                         |
| SRAM (KB)                          | 0.5                       |
| No. of CapSense IO                 | 12                        |
| Proximity Sensing                  | Y                         |
| Sliders                            | 2                         |
| SmartSense Enabled                 | N                         |
| Comm. Interface                    | I2C, SPI, UART            |
| Flash (KB)                         | 8                         |

### Pricing & Inventory Availability

| 1-10 unit Price* | 11-100 unit Price* | 101-1000 unit Price* | 1001 + unit Price* |
|------------------|--------------------|----------------------|--------------------|
|                  |                    |                      |                    |

| Availability | Quantity | Ships In | Order Now |
|--------------|----------|----------|-----------|
|              |          |          |           |

\* Prices are shown in United States dollars and are for budgetary use only.

### Packaging / Ordering

|                    |                            |
|--------------------|----------------------------|
| Package            | SSOP                       |
| No. of Pins        | 20                         |
| Package Dimensions | 288 L X 0 H X 210 W (Mils) |
| Package Weight     | 164.70 (mgs)               |

|                                       |                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------|
| Package Cross Section Drawing         | <a href="#">Download</a>                                                                          |
| Package Carrier                       | REEL                                                                                              |
| Package Carrier Drawing / Orientation | <a href="#">Tape Drawing</a> , <a href="#">Reel Drawing</a> , <a href="#">Package Orientation</a> |
| Standard Pack Quantity                | 2000                                                                                              |
| Minimum Order Quantity (MOQ)          | 2000                                                                                              |
| Order Increment                       | 2000                                                                                              |
| Estimated Lead Time (days)            | 63                                                                                                |
| HTS Code                              | 8542.31.0000                                                                                      |
| ECCN                                  | EAR99                                                                                             |

## Quality and RoHS

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Moisture Sensitivity Level (MSL) | 3                                                      |
| Peak Reflow Temp. (°C)           | 260 ( <a href="#">Cypress Reflow Profile</a> )         |
| RoHS Compliant                   | Y <a href="#">Print RoHS Certificate of Compliance</a> |
| PB Free                          | Y                                                      |
| Lead/Ball Finish                 | Ni/Pd/Au                                               |
| Marking                          | <a href="#">Cypress Marking Format</a>                 |

### Package Material Declaration

[20L-SSOP PB-FREE PMDD](#) Last Update: 07/06/2012

### IPC 1752 Material Declaration

[IPC-1752-2\\_V1.1\\_SSOP 20\\_AMKOR\\_PURE SN](#) Last Update: 07/04/2012

[IPC-1752-2\\_V1.1\\_SSOP 20\\_OSET\\_NIPDAU](#) Last Update: 07/04/2012

### RoHS Analysis Certificates (CoA)

[PACKAGE ROHS ANALYSIS REPORT - SSOP \(SP20,28,48,56\) QSOP \(SQ20,24\) SOIC \(SZ18,24\) TSOP \(ZT32\) USING MOLD COMPOUND KEG3000DA, ADHESIVE QMI509, NIPDAU - CML ASSEMBLY](#) Last Update: 07/04/2012

### Device Qualification Reports

 FIT/MTBF, ESD (HBM/CDM) and Latch-up data available in the Device Qualification Report. Please click [here](#).

## Technical Documents

### Application Notes (27)

[AN2397 - CapSense® Data Viewing Tools](#) Last Update: 04/04/2013

[AN78646 - Integrated Power Manager using PSoC® 1](#) Last Update: 18/03/2013

[AN73212 - Debugging with PSoC® 1](#) Last Update: 20/02/2013

[AN17310 - PSoC® 1 Power Savings Using Sleep Mode](#) Last Update: 04/02/2013

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### Product Information Notice (PIN) (1)

[PIN135200](#) Last Update: 21/03/2013

## Support and Community

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