



Home > Products > Memory > Nonvolatile Products > CY14E256Q1A-SXIT

CY14E256Q1A-SXIT Status: In Production

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- Datasheet
- Quality and RoHS
- Support and Community
- Inventory
- Technical Documents
- Packaging/Ordering
- Related Products



| CY14E256Q1A-SXIT           |            |
|----------------------------|------------|
| Automotive Qualified       | N          |
| Min. Operating Voltage (V) | 2.70       |
| Max. Operating Voltage (V) | 3.60       |
| Min. Operating Temp. (°C)  | -40        |
| Max. Operating Temp. (°C)  | 85         |
| Frequency (MHz)            | 40         |
| Temp. Classification       | Industrial |
| Max. Operating VCCQ (V)    | 3.60       |
| Min. Operating VCCQ (V)    | 2.70       |
| Speed (ns)                 | N/A        |
| Density (Kb)               | 256        |
| Organization (X x Y)       | SPI        |

| 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                               | SOIC                                                                                              |
| No. of Pins                           | 8                                                                                                 |
| Package Dimensions                    | 193 L X 1.46 H X 150 W (Mils)                                                                     |
| Package Weight                        | 76.45 (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                | 2500                                                                                              |
| Minimum Order Quantity (MOQ)          | 2500                                                                                              |
| Order Increment                       | 2500                                                                                              |
| Estimated Lead Time (days)            | 42                                                                                                |
| HTS Code                              | 8542.32.0040                                                                                      |
| ECCN                                  | 3A991                                                                                             |

|             |          |
|-------------|----------|
| ECCN Suball | (B.2.A.) |
|-------------|----------|

## 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

[8L-SOIC PB-FREE PACKAGE MATERIAL DECLARATION DATASHEET](#) Last Update: 07/05/2012

### IPC 1752 Material Declaration

[IPC-1752-2\\_V1.1\\_SOIC08\\_AMKOR](#) Last Update: 07/03/2012

[IPC-1752-2\\_V1.1\\_SOIC08\\_CML](#) Last Update: 07/05/2012

[IPC-1752-2\\_V1.1\\_SOIC08\\_OSE](#) Last Update: 07/04/2012

### RoHS Analysis Certificates (CoA)

[PACKAGE ROHS ANALYSIS REPORT - SOIC \(SZ08,16,18,20,24\) USING MOLD COMPOUND MP8500, ADHESIVE QMI509, NIPDAU - CML ASSEMBLY](#) Last Update: 07/03/2012

[PACKAGE ROHS ANALYSIS REPORT - SOIC \(SZ08, 16, 18, 20, 24, 32\) SSOP \(SP16, 20, 28, 48\) USING MOLD](#)

[COMPOUND G600, ADHESIVE 8290, PURE SN - AMKOR PHILS. ASSEMBLY](#) Last Update: 07/04/2012

[PACKAGE ROHS ANALYSIS REPORT - SSOP \(SP 20,28,48,56\) SOIC \(SZ08,14,16\) USING MOLD COMPOUND CEL9220HF, ADHESIVE 4900G, NIPDAU - OSE TAIWAN 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 (52)

[AN74875 - Designing with Serial I2C nvSRAM](#) Last Update: 06/05/2013

[AN106 - Migrating from FM20L08 to FM28V100](#) Last Update: 08/04/2013

[AN214 - Differences between the FM24C16A and FM24C16B](#) Last Update: 05/04/2013

[AN326 - Differences between Grade 1 Versions of the FM25C16A and the FM25C16AR](#) Last Update: 05/04/2013

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### Models (2)

[CY14E256Q1A - VERILOG](#) Last Update: 28/01/2013

[CY14E256Q1A - IBIS](#) Last Update: 13/11/2012

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

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

## Support and Community

Cypress Developer Community <sup>™</sup>

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