

## End of Life Notification of VS1011

Device:	VS1011E, all package options (VS1011E-S, VS1011E-L)
Reason:	Tower Semiconductor announced EOL for the CMOS process used for VS1011E
Effective from:	20th December 2023

After over 20 years in manufacturing, we have to unfortunately announce the end of life of our oldest product, VS1011E.

### Reason for the end of life

The Tower Semiconductor, Ltd. has announced EOL for the CMOS process used for manufacturing VS1011E. The EOL is effective 31 March 2024. For a semiconductor process, this is an exceptionally fast shut-down. The factory has not given any reason for the schedule.

### Existing Purchase Orders

All confirmed purchase orders for VS1011E-L will be delivered as scheduled.

### Last time buy

The factory has reserved the right to limit the last time buy quantities. VLSI Solution will aim to get enough devices for customer's last buy demand, but unfortunately this can't be guaranteed due to the possible limitations set by the factory. Priorities will be given to customers that have been active in the past two years. The available quantities become clear only during Q1-Q2 2024, so it won't be possible to confirm last time buy orders before the availability is secured.

### Potential replacements

The closest replacement parts include: VS1003B-L, VS1053B-L, and VS1063A-L.

Although these ICs share the LQFP-48 package and are otherwise backwards pin-compatible, the correct core voltage supply **must** to be provided in the CVDD pin. VS1011E doesn't use the CVDD pin. Unfortunately there is currently no replacement device using the SOIC-28 package.

The details of hardware and software differences are listed in the migration guides, available on our web pages:

[https://www.vlsi.fi/fileadmin/app\\_notes/migrate11to03.pdf](https://www.vlsi.fi/fileadmin/app_notes/migrate11to03.pdf)

[https://www.vlsi.fi/fileadmin/app\\_notes/migrate11to53.pdf](https://www.vlsi.fi/fileadmin/app_notes/migrate11to53.pdf)

[https://www.vlsi.fi/fileadmin/app\\_notes/migrate11to63.pdf](https://www.vlsi.fi/fileadmin/app_notes/migrate11to63.pdf)

At the moment, an electrically and pin-compatible replacement is not available. VLSI Solution is looking into options to find a compatible CMOS process to continue offering an electrically compatible and software-compatible device, but at the time of this EOL notice, it is unsure if this is possible.

VLSI Solution will help as much as possible in the migration effort by technical recommendations, reviewing of the schematics around our ICs, code reviews etc.

Samples of VS1003B-L, VS1053B-L, and VS1063A-L devices are immediately available in reasonable quantities (5-20 pcs per customer and product) and are provided free of charge.

### Contact Information

Questions about the last time buy can be emailed to [sales@vlsi.fi](mailto:sales@vlsi.fi) and questions about replacement parts can be emailed either to [support@vlsi.fi](mailto:support@vlsi.fi) (technical) or [sales@vlsi.fi](mailto:sales@vlsi.fi) (commercial).