


## step-up micro DC/DC converter

<b>Manufacturer:</b>	<u>TOREX SEMICONDUCTOR LTD</u>
<b>Package/Case:</b>	CL-2025
<b>Product Type:</b>	Power Management ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

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## General Description

PFM Synchronous Step-Up Micro DC/DC with Integrated Inductor

### Application Notes

The XCL101 series is a synchronous step-up Micro DC/DC converter with integrated inductor which offers high levels of efficiency and superior performance for demanding battery powered applications.

Able to start operation from Input Voltages as low as 0.9V the XCL101 is suitable for use with single alkaline or nickel metal hydride cells and up to 100mA of output current can be supplied with VIN=1.8V and VOUT=3.3V.

The output voltage is set internally between 1.8V~5.0V (±2%) in 0.1V increments and with a quiescent current of only 6.3µA (typ), reducing to 0.1µA (typ) during standby, the XCL101 helps to further maximise battery life in portable applications.

The XCL101 series also features a soft-start circuit, an enable pin to turn the IC on and off, and a load disconnect function that prevents the battery charge from leaking to the output while the IC is not operating (XCL101A). An Input by-pass mode function is also available to keep the connection between the input and output side during shutdown (XCL101C).

### Features:

- Input Voltage: 0.9V ~ 5.5V • Output Voltage: 1.8V ~ 5.0V • Output Current: 100mA (VOUT=3.3V, VBAT=1.8V) • Low Supply Current: 6.3µA (VBAT=VOUT+0.5V) • Switching Frequency: 1.2MHz • Load Disconnect or Input Bypass Function Available • Packages : CL-2025, CL-2025-02

## Recommended For You

### XC6804A3E14R-G

TOREX SEMICONDUCTOR LTD  
REEL

### XC9248B085QR-G

TOREX SEMICONDUCTOR LTD  
SOP-8

### XCL206B123CR-G

TOREX SEMICONDUCTOR LTD  
CL2025

### XCL219B333FR-G

TOREX SEMICONDUCTOR LTD  
SMD

### XCL219B183FR-G

TOREX SEMICONDUCTOR LTD  
BGA

### XC9223B082AR-G

TOREX SEMICONDUCTOR LTD  
MSOP10

**XC8111AA01MR-G**

TOREX SEMICONDUCTOR LTD

SOT-25

**XC8109AC10ER-G**

TOREX SEMICONDUCTOR LTD

SOT23-5

**XC6806A42011-G**

TOREX SEMICONDUCTOR LTD

SMD

**XC9236D08CER-G**

TOREX SEMICONDUCTOR LTD

6C-USP

**XC6804A4E14R-G**

TOREX SEMICONDUCTOR LTD

6-USPEL1.8x2

**XCL102D333CR-G**

TOREX SEMICONDUCTOR LTD

BGA

**XC6802A42XMR-G**

TOREX SEMICONDUCTOR LTD

SOT23-5

**XC8108AC20ER-G**

TOREX SEMICONDUCTOR LTD

6-USPC1.8x2

**XCL210C331GR-G**

TOREX SEMICONDUCTOR LTD

BGA