

2-Cell Li-ion, 4-Dry Cell, and 12V/24V Solutions

2-Cell Li-ion, 4-Dry Cell, and 12V/24V input operation: Low Power Consumption system

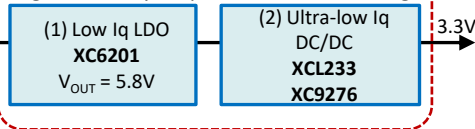
Challenges : Small / Low Iq / Simple

Load transient response to RF/Sensor

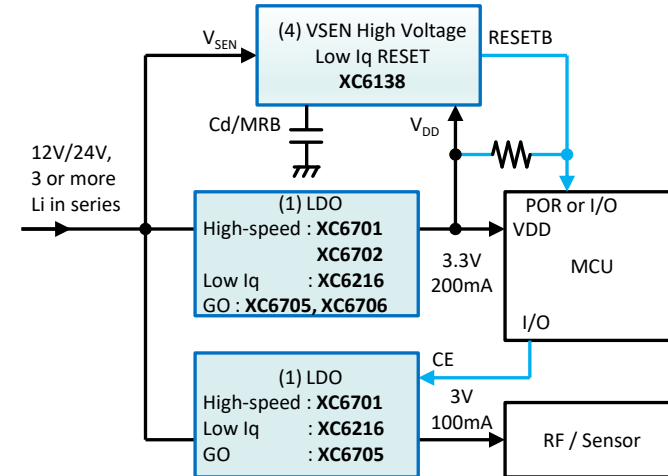
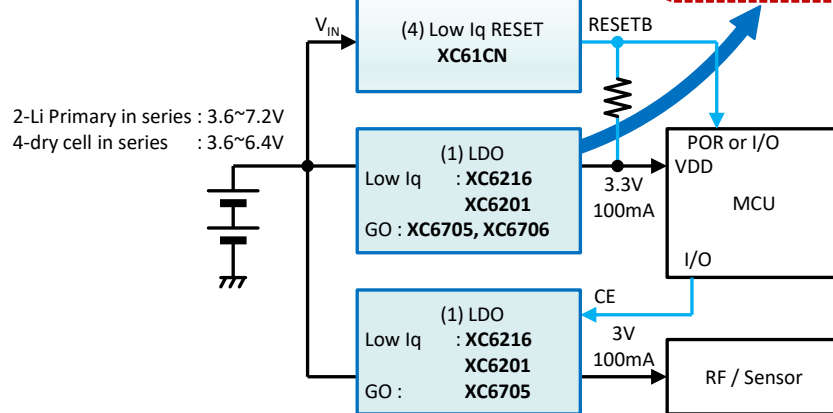
(3) 2-Li and 4-dry cell compatible, high efficiency Step-down solution for light loads

(a) 2-cell Li Primary or 4-dry-cell in series

e.g. 3.6V~7.2V



(b) 12V/24V input



Block	Product	Features
(1) LDO	XC6701	28V, High-speed PSRR=50dB, 150mA
	XC6702	36V, High-speed PSRR=65dB, 300mA
	XC6216	28V, Iq=5μA, 150mA
	XC6705 / XC6706	20V, Iq=1.2μA, 200mA PSRR=50dB, Seamless GO, Soft-start, CE (XC6705)
	XC6201	10V, Iq=2.0μA, 200mA
(2) Step-down DC/DC	XCL233 FEATURED	Built-in inductor, Iq=200nA, PFM, 150mA, VSET(V _{OUT} selectable) Other: XC9276 , 150mA
(4) RESET IC	XC6138 FEATURED	High Voltage Sense pin: 76V, Ultra-low Iq V _{DD} : 0.5μA, V _{SEN} : 0.15μA@12V Detect/Release Delay external adj., Selectable Hysteresis
	XC61CN	10V, Iq=0.7μA

(1) Medium Voltage LDO

For 2-Li / 4-dry cell in series : XC6705/XC6706

Seamless GO achieves both low Iq and high-speed response.
Supports high-speed response required by RF and Sensor.

For 12V/24V or 3 or more Li in series input

Select by input voltage range and current consumption.

(2) 2-Li and 4-dry cell compatible, high efficiency Step-down solution for light loads

10V low Iq LDO **XC6201** + ultra-low Iq step-down **XCL233/XC9276**.
Suitable for IoT sensors

(4) RESET IC

Direct monitoring of 12V/24V input with V_{SEN} pin of XC6138

No dividing resistors required resulting in low Iq and high accuracy.

For 10V or less, monitoring voltage with low Iq RESET IC **XC61CN**.