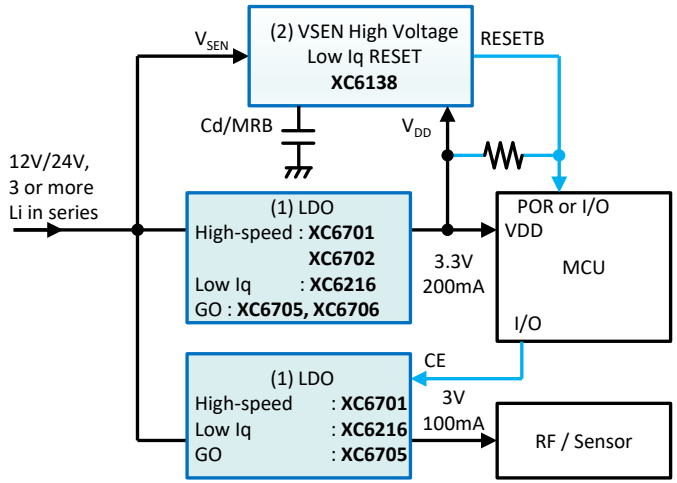
12V/24V, Li Multi-Cell and 4-Dry Cell : LDO Solutions

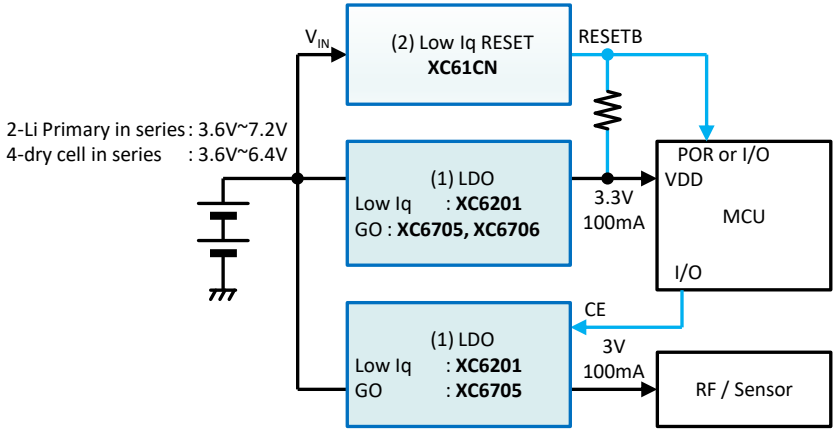
12V/24V input, Li multi-cell and 4-cell dry cell operation: Low Power Consumption system with simple LDO

● Challenges : Small / Low Iq / Simple
Load transient response to RF/Sensor

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



2-cell Li Primary or 4-dry cell in series



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 FEATURED	20V, Iq=1.2μA, 200mA PSRR=50dB, Seamless GO, Soft-start, CE (XC6705)
	XC6201	10V, Iq=2.0μA, 200mA
(2) RESET IC	**XC6138** NEW	High Voltage Sense pin: 76V Ultra-low Iq V_{DD}: 0.5μA, V_{SEN}: 0.15μA@12V Detect/Release Delay external adj. Hysteresis: selectable from 5~50%
	XC61CN	10V, Iq=0.7μA

(1) Medium Voltage LDO

- **For 12V/24V or 3 or more Li in series input**
  Selecting by input voltage range and current consumption.
- **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.

(2) 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**.