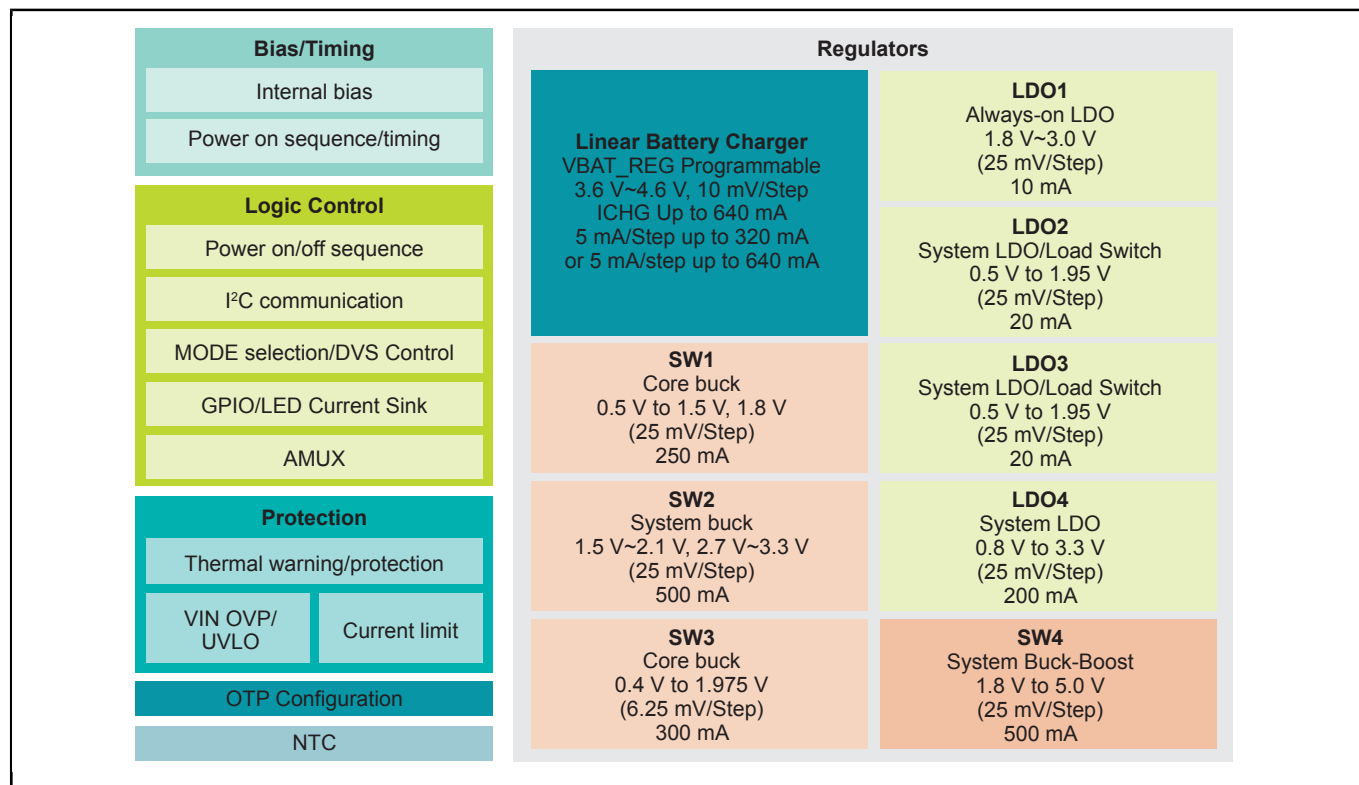# PCA9422 Evaluation Board

PCA9422-EVB

Preproduction

This page contains information on a preproduction product. Specifications and information herein are subject to change without notice. For additional information contact support or your sales representative.

Last Updated: Jan 22, 2025

The PCA9422-EVB evaluation board is an easy-to-use circuit board allowing the user to exercise all the functions of the PCA9422 Power Management IC (PMIC). The EVB supports Arduino® UNO interface. An onboard Analog-to-Digital coverter is used to monitor all regulator voltages through the GUI.

PCA9422 Block Diagram

Bias/Timing
Internal bias
Power on sequence/timing

Logic Control
Power on/off sequence
I²C communication
MODE selection/DVS Control
GPIO/LED Current Sink
AMUX

Protection
Thermal warning/protection
VIN OVP/UVLO / Current limit
OTP Configuration
NTC

Regulators

Linear Battery Charger
VBAT_REG Programmable
3.6 V~4.6 V, 10 mV/Step
ICHG Up to 640 mA
5 mA/Step up to 320 mA
or 5 mA/step up to 640 mA

SW1
Core buck
0.5 V to 1.5 V, 1.8 V
(25 mV/Step)
250 mA

SW2
System buck
1.5 V~2.1 V, 2.7 V~3.3 V
(25 mV/Step)
500 mA

SW3
Core buck
0.4 V to 1.975 V
(6.25 mV/Step)
300 mA

LDO1
Always-on LDO
1.8 V~3.0 V
(25 mV/Step)
10 mA

LDO2
System LDO/Load Switch
0.5 V to 1.95 V
(25 mV/Step)
20 mA

LDO3
System LDO/Load Switch
0.5 V to 1.95 V
(25 mV/Step)
20 mA

LDO4
System LDO
0.8 V to 3.3 V
(25 mV/Step)
200 mA

SW4
System Buck-Boost
1.8 V to 5.0 V
(25 mV/Step)
500 mA

View additional information for PCA9422 Evaluation Board.

Note: The information on this document is subject to change without notice.