

1 V3.0 (08-Nov-2016)

- Product status changed to Production, datasheet status changed to Final.
- DA14582 qualified to Bluetooth Specification 4.2. Datasheet title and document content changed accordingly.
- Bluetooth Smart changed to Bluetooth low energy as per Bluetooth SIG directive.
- Order of sections 'Registers' and 'Specifications' exchanged. Tables, figures and notes renumbered.
- Notes added that DC-DC converter Boost mode is not supported, in section 5 (p.18) and section 7 (p.148).
- Table 1 (Pin Description), p.7:
 - Pins VDD and VDDIO: 'CODEC' added to pin description.
 - Pin VPP: Programming voltage corrected from $6.8\text{ V} \pm 0.25\text{ V}$ to $6.7\text{ V} \pm 0.1\text{ V}$.
 - Pin VBAT3V: Text on second output of DC-DC converter removed. Boost mode is not supported.
 - Pin VBAT1V: Must be connected to GND. Boost mode is not supported.
- Ordering Information moved to new section 3 (p.8):
 - Table 3: Pack Quantity for production orders corrected from 3000 per reel to 4000 per reel.
- Section 4.7.4 (Wake-Up Timer), p.14:
 - Added minimum pulse width of 2 sleep clock cycles for wake-up via GPIO.
- Section 4.9 (Power Management), p.16:
 - References to Boost mode removed.
 - Minimum battery voltage corrected from 2.2 V to 2.35 V .
 - Figure 56 (DC-DC Efficiency), p.17: updated.
- Table 17 (PMU_CTRL_REG), p.30: Bits 6 and 7 changed to 'Reserved'.
- Table 124 (SPI_CTRL_REG), p.94: Definition of SPI_MINT corrected:
 - ICU changed to Interrupt Controller.
 - Note on shared interrupts (SPI_INT and AD_INT) removed: not applicable.
- Table 289 (Recommended Operating Conditions), p.150:
 - T_A (ambient temperature): Min/Max values corrected from $-40/+85\text{ }^\circ\text{C}$ to $-20/+60\text{ }^\circ\text{C}$.
- Table 304 (RCX Oscillator: Timing Characteristics), p.158:
 - Added parameters $\Delta T_A/t(\text{RCX})100\text{ms}$, $\Delta T_A/t(\text{RCX})4\text{s}$:

$\Delta T_A/\Delta t(\text{RCX})100\text{ms}$	ambient temperature gradient	buck mode only; connection interval 100 ms			0.66	$^\circ\text{C/s}$
$\Delta T_A/\Delta t(\text{RCX})4\text{s}$	ambient temperature gradient	buck mode only; connection interval 4 s			0.33	$^\circ\text{C/s}$

- Section 8 (CODEC Specifications), p.159:
 - Definition of MIN/MAX specifications rephrased.
 - Default measurement conditions added.
 - Table 305 (Absolute Maximum Ratings): Text of Note 28 aligned with Note 6.
- Language and title capitalization changed to US English.
- Template updated to new branding guidelines.
- Back page:
 - Definition for datasheet status Final clarified.
 - Disclaimer updated with trademarks statement.

Revision History**FINAL**

- RoHS statement updated.
- Contact information updated.

2 V2.0 (March 11, 2015)

- Initial version, based on DA14580 and SC14439. Product status: Development, datasheet status: Preliminary.