


Software Features List (note 1)		DA14580-00	DA14580-01	
		2.0.4	3.0.2	3.0.4
"X" = Supported feature "NS" = Not Supported Feature		release date: 23/12/2014	release date: 28/03/2014	release date: 30/06/2014
1	Embedded Development Tools			
1.1	Keil project environment	X	X	X
1.2	JTAG debugger	X	X	X
1.3	GNU / GCC toolset	NS	NS	X
2	Stack			
2.1	Protocol features			
2.1.1	Bluetooth Smart 4.1 core stack	X	X	X
2.1.2	MTU size	23	23	23
2.1.3	Large packet support (L2CAP fragmentation)	NS	X	X
2.1.4	Master mode	X	X	X
2.1.5	Slave mode	X	X	X
2.1.6	Master and Slave sequentially	X	X	X
2.1.7	Multilink support (maximum links)	4	6	6
2.1.8	UUID 128bits	X	X	X
2.2	Low Energy features			
2.2.1	BLE timer wakeup	X	X	X
2.2.2	GPIO wakeup	X	X	X
2.2.3	Quadrature wakeup	X	X	X
2.2.4	Active mode	X	X	X
2.2.5	Extended Sleep Mode	X	X	X
2.2.6	Deep Sleep	X	X	X
3	Profiles			
3.1	Health Profile			
3.1.1	Blood Pressure Profile	X	X	X
3.1.2	Blood Pressure Service	X	X	X
3.1.3	Glucose Profile	X	X	X
3.1.4	Glucose Service	X	X	X
3.1.5	Health Thermometer Profile	X	X	X
3.1.6	Health Thermometer Service	X	X	X
3.2	Sports and Fitness Profile			
3.2.1	Cycling Power Profile	NS	NS	X
3.2.2	Cycling Power Service	NS	NS	X
3.2.3	Cycling Speed and Cadence Profile	X	X	X
3.2.4	Cycling Speed and Cadence Service	X	X	X
3.2.5	Location and Navigation Profile	NS	NS	X
3.2.6	Location and Navigation Service	NS	NS	X
3.2.7	Heart Rate Profile	X	X	X
3.2.8	Heart Rate Service	X	X	X
3.2.9	Running Speed and Cadence Profile	X	X	X
3.2.10	Running Speed and Cadence Service	X	X	X

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3.3	Proximity Profile			
3.3.1	Proximity Profile	X	X	X
3.3.2	Find Me Profile	X	X	X
3.4	Alerts and time Profile			
3.4.1	Time Profile	X	X	X
3.4.2	Current Time Service	X	X	X
3.4.3	Reference Time Update Service	X	X	X
3.4.4	Next DST Change Service	X	X	X
3.4.5	Phone Alert Status Profile	X	X	X
3.4.6	Phone Alert Status Service	X	X	X
3.4.7	Alert Notification Profile	X	X	X
3.4.8	Alert Notification Service	X	X	X
3.4.9	Immediate Alert Service	X	X	X
3.5	Peripherals Profile			
3.5.1	HID over GATT Profile	X	X	X
3.5.2	HID Service	X	X	X
3.6	Generic Profile			
3.6.1	Scan Parameters Profile	X	X	X
3.6.2	Scan Parameters Service	X	X	X
3.6.3	Battery Service	X	X	X
3.6.4	Device Information Service	X	X	X
3.6.5	Link Loss Service	X	X	X
3.6.6	Tx Power Service	X	X	X
3.6.7	Accelerometer	X	X	X
4	Peripheral Device Drivers/HAL			
4.1	UART driver	NS	X	X
4.2	GPIO driver	NS	X	X
4.3	SPI driver	NS	X	X
4.4	SPI Flash driver	NS	X	X
4.5	I2C EEPROM driver	NS	X	X
4.6	ADC driver	NS	X	X
4.7	Battery Level driver	NS	X	X
4.8	PWM driver	NS	X	X
4.9	Quadrature driver	NS	X	X
4.10	Wakeup timer driver	NS	X	X

 smart{snippets}				
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5	Tools & Utilities			
5.1	Software Patching Over The Air	X	X	X
5.2	Connection Manager	X	X	X
5.3	External microcontroller interface through SPI	X	X	X
5.4	Bootimg from external SPI flash memory	X	X	X
5.5	EEPROM access through I2C	X	X	X
5.6	Production test utility	X	X	X
5.7	Dual image boot support	NS	X	X
5.8	Flash programmer	NS	X	X
5.9	Software Upgrade Over The Air to SPI Flash (SUOTA)	NS	NS	X
6	Smart Snippets			
6.1	OTP programmer	X	X	X
6.2	Power Profiler	X	X	X
6.3	UART Booter	X	X	X
6.4	Sleep Advisor	NS	X	X
6.5	Command Line (CLI) tool Production tests	X	X	X
6.6	OTP Software Patching Over The Air (SPOTA)	NS	X	X
6.7	FLASH programmer	NS	X	X
6.8	JTAG programming support	NS	NS	X
6.9	Software Upgrade Over The Air to SPI Flash (SUOTA)	NS	NS	X
6.1	Data rate evaluation tool	NS	NS	X
7	Application Examples			
7.1	Proximity			
7.1.1	Ext. Processor proximity monitor	X	X	X
7.1.2	Integrated Processor proximity reporter	X	X	X
7.1.3	Integrated Processor proximity reporter	X	X	X
7.2	Software upgrade over the air (using ext Flash)	X	X	X
7.3	Integrated Processor Template project	X	X	X
7.4	Secondary boot loader	NS	X	X

Note 1: This document specifies the features of the DA14580 Software Development Kit. Additional Software features are available in the DA14580 Reference Designs available at: <http://support.dialog-semiconductor.com/ref-designs>