

Updating CY8CKIT-042-BLE KitProg and CySmart USB Dongle Firmware – KBA96152

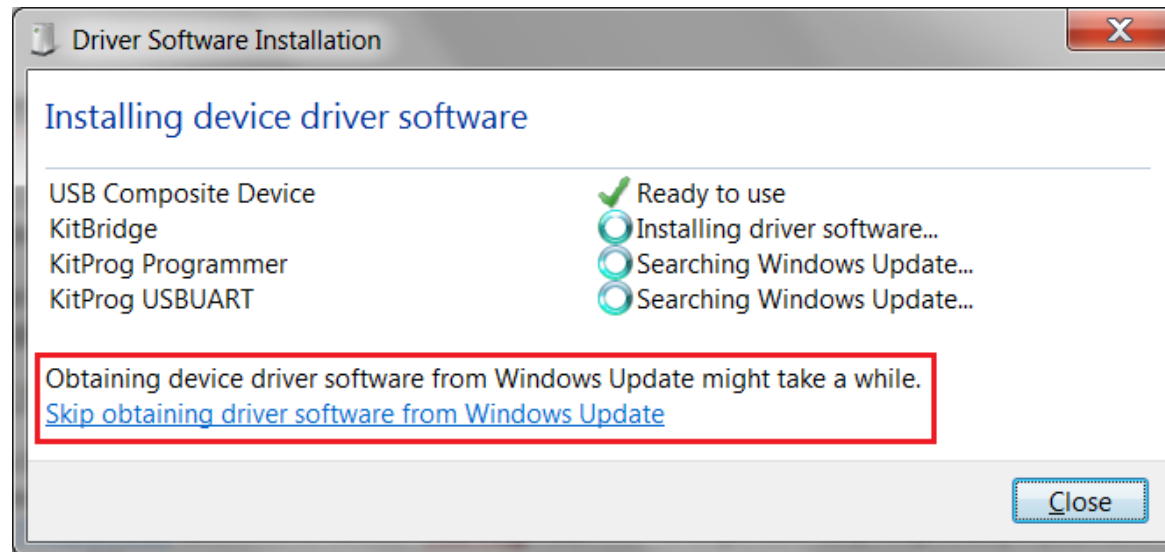
Question: CY8CKIT-042-BLE KitProg firmware and the CY5670 CySmart USB Dongle KitProg and device firmware shows out of date. How should I update the firmware on these boards?

Answer: To update the KitProg firmware on CY8CKIT-042-BLE Bluetooth Low Energy (BLE) Pioneer Kit baseboard and CY5670 CySmart USB Dongle (BLE Dongle), and the PRoC BLE device firmware on the BLE dongle, do the following:

CY8CKIT-042-BLE Pioneer Kit – KitProg Update

1. Connect the BLE Pioneer Kit Baseboard to your computer using the USB Standard-A to Mini-B cable provided.
2. Wait for driver enumeration to complete (you can “skip” the windows update as the drivers are locally installed on your PC), shown in Figure 1.

Figure 1. Driver Installation

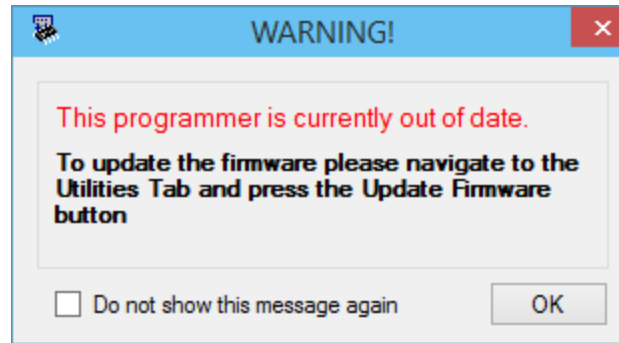


- Open [PSoC Programmer](#) and click to select the BLE Pioneer Kit Baseboard KitProg.

Note If you have multiple Cypress kits with KitProg firmware connected, unplug other kits to ensure that you select the right kit.

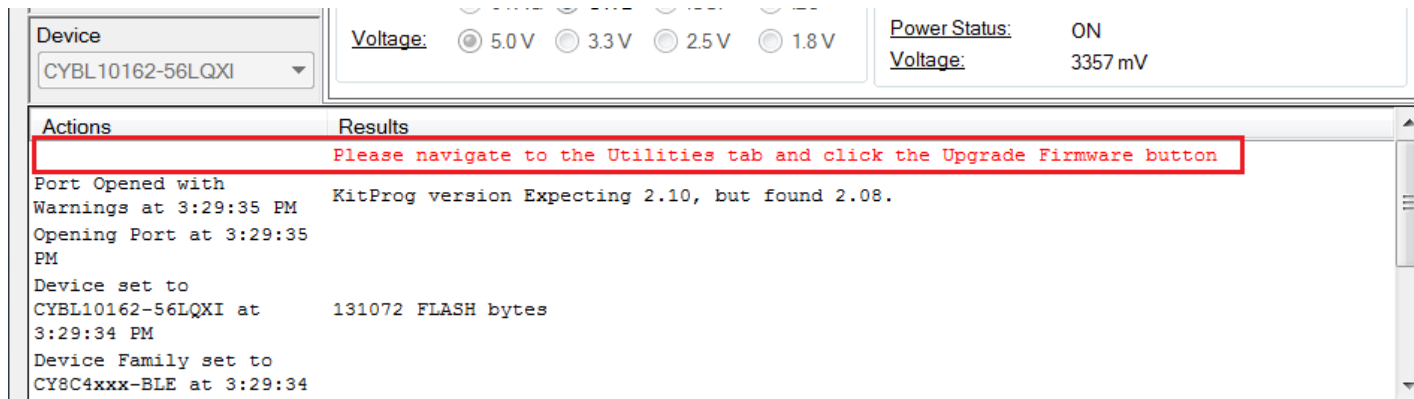
When you connect to the BLE Pioneer Kit Baseboard, you may see the warning about programmer being out of date, as shown in Figure 2.

Figure 2. CY8CKIT-042-BLE Pioneer Kit - Programmer Out-of-Date



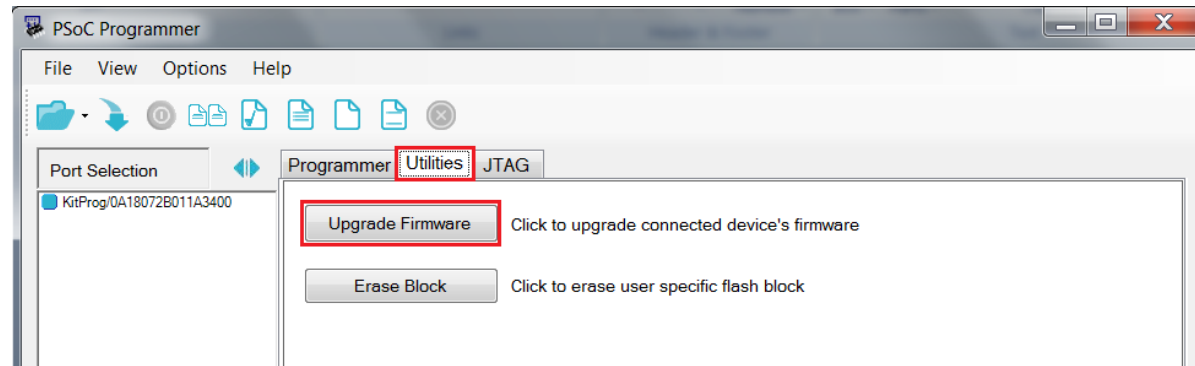
A similar warning is displayed in the PSoC Programmer window, as shown in Figure 3.

Figure 3. CY8CKIT-042-BLE Pioneer Kit - Programmer Out-of-Date



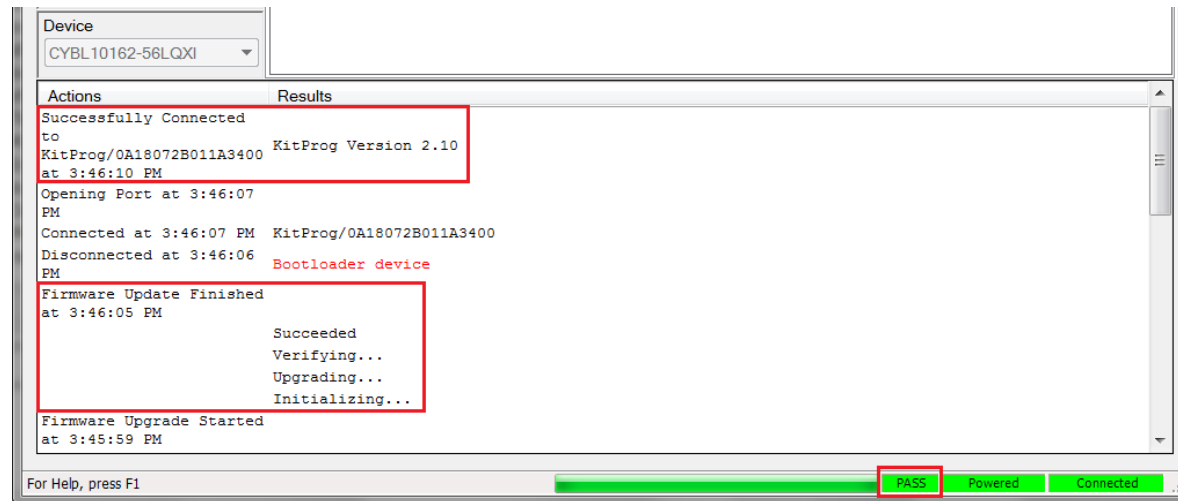
- To upgrade the firmware, go to the **Utilities** tab and click **Upgrade Firmware**, as shown in Figure 4.

Figure 4. Upgrade Firmware



5. Verify that KitProg has been updated to version 2.10 (or newer), as shown in Figure 5.

Figure 5. CY8CKIT-042-BLE Pioneer Kit KitProg Firmware Upgrade



You have successfully completed the KitProg firmware upgrade on the BLE Pioneer Kit.

CY5670 CySmart USB Dongle – KitProg Update

1. Plug the CySmart BLE Dongle into your PC's USB port, as shown in Figure 6.

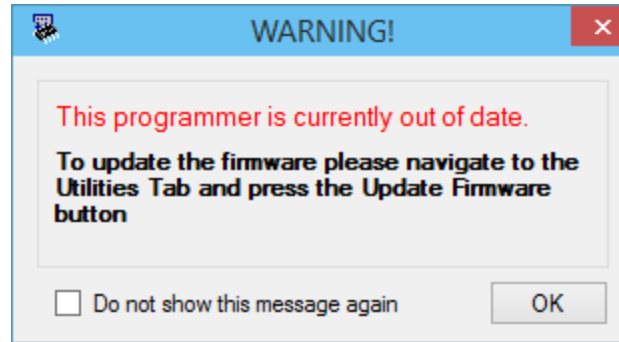
Figure 6. CySmart USB Dongle



2. Wait for driver enumeration to complete (you can “skip” the windows update as the drivers are locally installed on your PC).
3. Open [PSoC Programmer](#) and click to select “**KitProg/BLE...**”
Note CySmart USB Dongle name starts with KitProg/BLE...If you have multiple CySmart USB Dongles connected to your computer, then unplug other dongles to ensure that you select the right dongle.

When you connect to the CySmart USB Dongle, you may see the following warning about programmer being out of date, as shown in Figure 7.

Figure 7. BLE Dongle - Programmer Out-of-Date

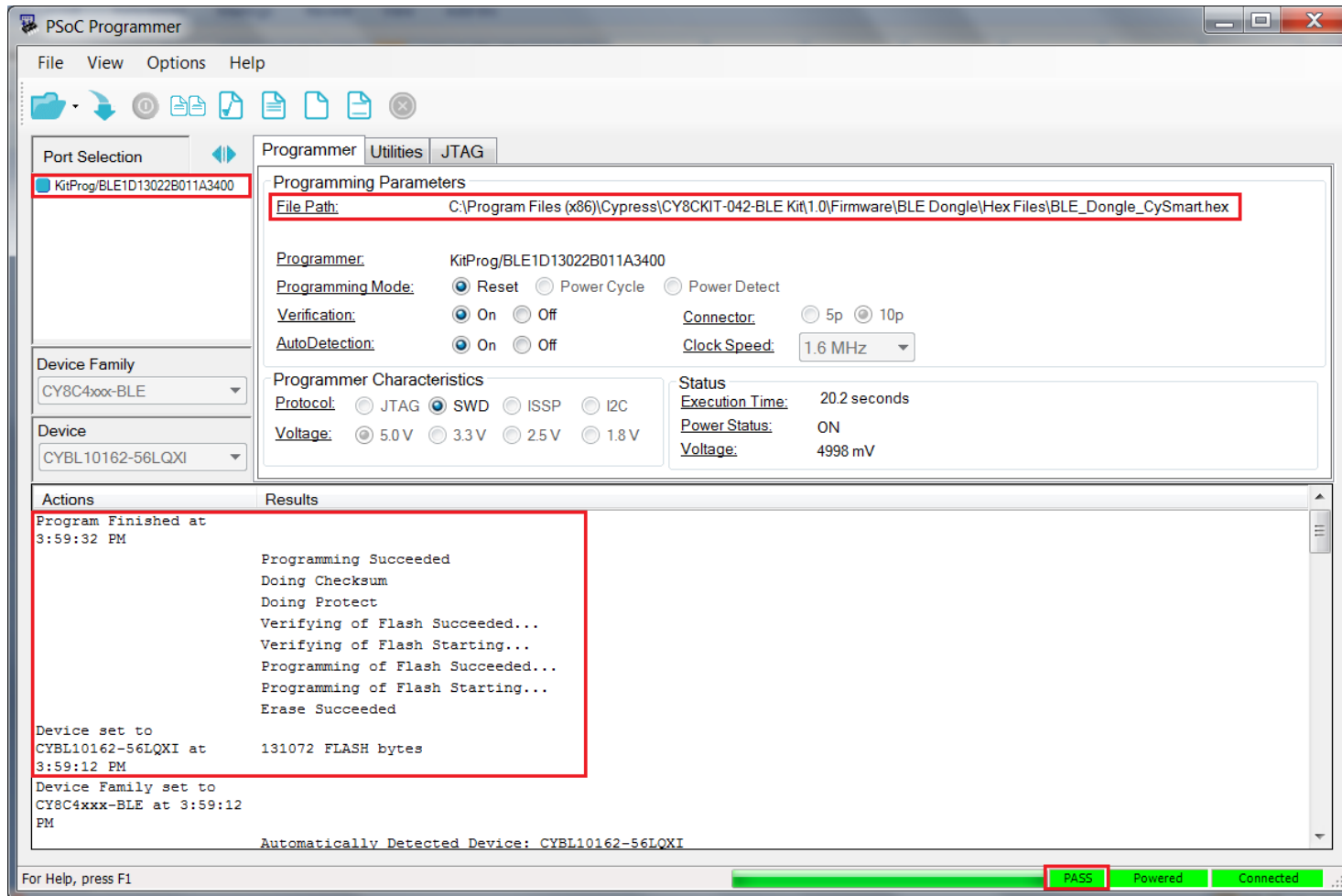


4. Go to the **Utilities** tab and click **Upgrade Firmware**.
5. Verify that KitProg has been updated to version 2.10 (or newer).
6. You have successfully completed the KitProg firmware upgrade on the CySmart BLE Dongle.

CY5670 CySmart USB Dongle – PProC Firmware Update

1. Plug the CySmart BLE Dongle into your PC's USB port.
2. Connect to the BLE USB Dongle from the Port Selection window.
3. Select **File > File Load...** (or press F4).
4. Select the following file:
C:\Program Files (x86)\Cypress\CY8CKIT-042-BLE Kit\1.0\Firmware\BLE Dongle\Hex Files\BLE_Dongle_CySmart.hex (or download the latest from www.cypress.com/CY8CKIT-042-BLE)
5. Select **File > Program** (or press F5).
6. Verify that programming of the CYBL10162-56LQXI device has completed successfully, as shown in Figure 8.

Figure 8. PSoC BLE Firmware Update



You have now successfully upgraded the BLE firmware on your CySmart BLE Dongle.



Related Categories:

Keywords: CY8CKIT-042-BLE, BLE Pioneer Kit, CY5670 CySmart, BLE Dongle, BLE, KitProg, CySmart

Product Family: [Type the ORACLE Family listed under section Attachment 2 - Product Divisions Financial Reporting Structure in Spec 00-00077. Multiple products can be selected]

Related Tags: [Select the Tags by clicking the checkbox associated to the Tags]

Clocks & Buffers Tags

<input type="checkbox"/> Adapter	<input type="checkbox"/> Algorithm	<input type="checkbox"/> Bitmap	<input type="checkbox"/> Buffer	<input type="checkbox"/> Bypass	<input type="checkbox"/> CLKMAKER
<input type="checkbox"/> CML	<input type="checkbox"/> CY3670	<input type="checkbox"/> CY3672	<input type="checkbox"/> CY3675	<input type="checkbox"/> CY36800	<input type="checkbox"/> Cascade
<input type="checkbox"/> Charge Pump	<input type="checkbox"/> Clock Tree	<input type="checkbox"/> Clocks	<input type="checkbox"/> Clocks and Buffers	<input type="checkbox"/> ComLink	<input type="checkbox"/> Crystal Oscillators
<input type="checkbox"/> CyClock	<input type="checkbox"/> CyClockWizard	<input type="checkbox"/> CyberClocks	<input type="checkbox"/> CyberClocks Online	<input type="checkbox"/> Cycle to Cycle	<input type="checkbox"/> DCXO
<input type="checkbox"/> Delay	<input type="checkbox"/> Deterministic Jitter	<input type="checkbox"/> Differential	<input type="checkbox"/> Divider	<input type="checkbox"/> Duty Cycle	<input type="checkbox"/> EMI
<input type="checkbox"/> Enhanced Performance	<input type="checkbox"/> Ent	<input type="checkbox"/> Entrant	<input type="checkbox"/> FNOM	<input type="checkbox"/> Factory	<input type="checkbox"/> Failsafe
<input type="checkbox"/> Fanout	<input type="checkbox"/> FastEdge	<input type="checkbox"/> Feedback	<input type="checkbox"/> Field	<input type="checkbox"/> Flexo	<input type="checkbox"/> Frequency
<input type="checkbox"/> Frequency Margining	<input type="checkbox"/> Function Select	<input type="checkbox"/> Generators	<input type="checkbox"/> Ground Bounce	<input type="checkbox"/> HPB	<input type="checkbox"/> HSTL
<input type="checkbox"/> Hershey Kiss	<input type="checkbox"/> I2C	<input type="checkbox"/> IBIS Model	<input type="checkbox"/> Impedance	<input type="checkbox"/> Input	<input type="checkbox"/> InstaClock
<input type="checkbox"/> Inverted	<input type="checkbox"/> Jed	<input type="checkbox"/> Jedec	<input type="checkbox"/> Jitter	<input type="checkbox"/> LVCMOS	<input type="checkbox"/> LVDS
<input type="checkbox"/> LVPECL	<input type="checkbox"/> Layout	<input type="checkbox"/> Lexmark Profile	<input type="checkbox"/> Loop Bandwidth	<input type="checkbox"/> MoBL	<input type="checkbox"/> Modulation Rate
<input type="checkbox"/> Multiplier	<input type="checkbox"/> NZDB	<input type="checkbox"/> Non-Volatile Memory	<input type="checkbox"/> OTP	<input type="checkbox"/> Offset	<input type="checkbox"/> Oscillator
<input type="checkbox"/> Output	<input type="checkbox"/> Overvoltage	<input type="checkbox"/> PCI Express	<input type="checkbox"/> PLL	<input type="checkbox"/> PPM	<input type="checkbox"/> PREMIS
<input type="checkbox"/> Period	<input type="checkbox"/> Phase	<input type="checkbox"/> Phase Noise	<input type="checkbox"/> Power Supply Noise	<input type="checkbox"/> Program	<input type="checkbox"/> Programmable
<input type="checkbox"/> Propagation	<input type="checkbox"/> Pullability	<input type="checkbox"/> RMS	<input type="checkbox"/> Rambus	<input type="checkbox"/> Random Jitter	<input type="checkbox"/> Reference
<input type="checkbox"/> Rise Fall Time	<input type="checkbox"/> RoboClock	<input type="checkbox"/> Schematic	<input type="checkbox"/> Serial	<input type="checkbox"/> Signal Integrity	<input type="checkbox"/> Skew
<input type="checkbox"/> Socket	<input type="checkbox"/> Specialty Clocks	<input type="checkbox"/> Spread %	<input type="checkbox"/> Spread Aware	<input type="checkbox"/> Spread Profile	<input type="checkbox"/> Spread Spectrum
<input type="checkbox"/> Synthesizer	<input type="checkbox"/> TCXO	<input type="checkbox"/> TIE	<input type="checkbox"/> Termination	<input type="checkbox"/> Thermal	<input type="checkbox"/> Translator
<input type="checkbox"/> Undervoltage	<input type="checkbox"/> UniClock	<input type="checkbox"/> Unit Interval	<input type="checkbox"/> VCO	<input type="checkbox"/> VCXO	<input type="checkbox"/> Volatile Memory
<input type="checkbox"/> Voltage Droop	<input type="checkbox"/> XCG	<input type="checkbox"/> XDR	<input type="checkbox"/> XO	<input type="checkbox"/> Xtal	<input type="checkbox"/> ZDB



<input type="checkbox"/> Zepto					
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Lighting & Power Control Tags

<input type="checkbox"/> Board Layout	<input type="checkbox"/> Boost Regulator	<input type="checkbox"/> Buck Regulator	<input type="checkbox"/> CY3261	<input type="checkbox"/> CY3267	<input type="checkbox"/> CY3268
<input type="checkbox"/> CY3269	<input type="checkbox"/> Color Mixing	<input type="checkbox"/> Current Sense	<input type="checkbox"/> DALI	<input type="checkbox"/> DMX	<input type="checkbox"/> FN Pins
<input type="checkbox"/> HB LEDs	<input type="checkbox"/> Hysteretic Controller	<input type="checkbox"/> MOSFETs	<input type="checkbox"/> MPPT	<input type="checkbox"/> Modulators	<input type="checkbox"/> PrISM
<input type="checkbox"/> Programming	<input type="checkbox"/> SSDM	<input type="checkbox"/> Schematics	<input type="checkbox"/> Switching Regulators	<input type="checkbox"/> Trip	<input type="checkbox"/> Voltage Regulator

Wireless/RF Tags

<input type="checkbox"/> 2.4 GHz	<input type="checkbox"/> 8DR	<input type="checkbox"/> Antenna	<input type="checkbox"/> Audio	<input type="checkbox"/> AgileHID	<input type="checkbox"/> Bridge
<input type="checkbox"/> CY3271	<input type="checkbox"/> CY3630	<input type="checkbox"/> CY4636	<input type="checkbox"/> CY4672	<input type="checkbox"/> CYFI	<input type="checkbox"/> CYFISNP
<input type="checkbox"/> CYRF6936	<input type="checkbox"/> CYRF7936	<input type="checkbox"/> Channel	<input type="checkbox"/> DDR	<input type="checkbox"/> DSSS	<input type="checkbox"/> GFSK
<input type="checkbox"/> HID	<input type="checkbox"/> HUB	<input type="checkbox"/> IRQ	<input type="checkbox"/> Interference Avoidance	<input type="checkbox"/> Keyboard	<input type="checkbox"/> Link Budget
<input type="checkbox"/> Mouse	<input type="checkbox"/> Node	<input type="checkbox"/> PMU	<input type="checkbox"/> PN Code	<input type="checkbox"/> PRoC	<input type="checkbox"/> PRoC-CS
<input type="checkbox"/> PRoC-EMB	<input type="checkbox"/> PRoC-TT	<input type="checkbox"/> PRoC-USB	<input type="checkbox"/> PRoC-UI	<input type="checkbox"/> Power Amplifier	<input type="checkbox"/> Preamble
<input type="checkbox"/> Pseudo Noise code	<input type="checkbox"/> RF	<input type="checkbox"/> RSSI	<input type="checkbox"/> Range	<input type="checkbox"/> Remote	<input type="checkbox"/> SCD
<input type="checkbox"/> SDR	<input type="checkbox"/> SOP	<input type="checkbox"/> SPIM	<input type="checkbox"/> Star-Network Protocol	<input type="checkbox"/> Streaming	<input type="checkbox"/> Trackpad
<input type="checkbox"/> Wireless	<input type="checkbox"/> Wireless USB	<input type="checkbox"/> Wireless USB LP	<input type="checkbox"/> Wireless USB LS	<input type="checkbox"/> Wireless USB LR	<input type="checkbox"/> Wireless USB NL
<input type="checkbox"/> Wireless Capacitive Touch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Memory Tags

<input type="checkbox"/> Address Bus	<input type="checkbox"/> Async	<input type="checkbox"/> Automotive	<input type="checkbox"/> Autostore	<input type="checkbox"/> BHE / BLE	<input type="checkbox"/> BUSY
<input type="checkbox"/> Battery Backup	<input type="checkbox"/> Burst	<input type="checkbox"/> Bus Contention	<input type="checkbox"/> Clock	<input type="checkbox"/> DDR	<input type="checkbox"/> Data Bus
<input type="checkbox"/> Data Integrity	<input type="checkbox"/> Data Retention	<input type="checkbox"/> Datasheet	<input type="checkbox"/> Dual Port	<input type="checkbox"/> Echo Clocks	<input type="checkbox"/> FIFO
<input type="checkbox"/> FPGA	<input type="checkbox"/> Flags	<input type="checkbox"/> Flowthrough	<input type="checkbox"/> Fullflex	<input type="checkbox"/> FRAM	<input type="checkbox"/> HOLD
<input type="checkbox"/> HD-FIFO	<input type="checkbox"/> HSB	<input type="checkbox"/> I2C	<input type="checkbox"/> INT	<input type="checkbox"/> Impedance Matching	<input type="checkbox"/> Interface



<input type="checkbox"/> Interleaving	<input type="checkbox"/> JTAG	<input type="checkbox"/> Junction Temperature	<input type="checkbox"/> Low Power	<input type="checkbox"/> MSL	<input type="checkbox"/> Migration Path
<input type="checkbox"/> MoBL	<input type="checkbox"/> Models	<input type="checkbox"/> NoBL	<input type="checkbox"/> ODT	<input type="checkbox"/> Obsolete	<input type="checkbox"/> PCB
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<input type="checkbox"/> Password Protection	<input type="checkbox"/> Pin Configuration	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Power Consumption	<input type="checkbox"/> Power On State	<input type="checkbox"/> Processor
<input type="checkbox"/> QDR	<input type="checkbox"/> Qualification Reports	<input type="checkbox"/> Quality	<input type="checkbox"/> RECALL	<input type="checkbox"/> RTC	<input type="checkbox"/> Race Condition
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<input type="checkbox"/> Vddq	<input type="checkbox"/> Voltage Levels	<input type="checkbox"/> Vref	<input type="checkbox"/> Width / Depth Expansion	<input type="checkbox"/> Write	<input type="checkbox"/> nvSRAM
<input type="checkbox"/> uPower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Interface Tags

<input type="checkbox"/> 10B/8B Decoder	<input type="checkbox"/> 3 Level Inputs	<input type="checkbox"/> ALDEC	<input type="checkbox"/> ATM	<input type="checkbox"/> Altera	<input type="checkbox"/> BIST
<input type="checkbox"/> BSDL	<input type="checkbox"/> Biasing	<input type="checkbox"/> CDR	<input type="checkbox"/> CML	<input type="checkbox"/> CPLD	<input type="checkbox"/> CY3900i
<input type="checkbox"/> CY3950i	<input type="checkbox"/> CYUSBIRPC	<input type="checkbox"/> Cable	<input type="checkbox"/> Cable Driver	<input type="checkbox"/> Channel Bonding	<input type="checkbox"/> Clock Multiplier
<input type="checkbox"/> Clocking Modes	<input type="checkbox"/> Coaxial Cable	<input type="checkbox"/> Copper Cable	<input type="checkbox"/> Coupling	<input type="checkbox"/> Crystal	<input type="checkbox"/> Current
<input type="checkbox"/> DVB	<input type="checkbox"/> Data Character	<input type="checkbox"/> Data rate	<input type="checkbox"/> Delta39K	<input type="checkbox"/> Deserialize	<input type="checkbox"/> Deserializer
<input type="checkbox"/> Dual Channel	<input type="checkbox"/> EPLD	<input type="checkbox"/> EPROM	<input type="checkbox"/> ESCON	<input type="checkbox"/> Elasticity Buffer	<input type="checkbox"/> Equalizer
<input type="checkbox"/> Error	<input type="checkbox"/> Evaluation Board	<input type="checkbox"/> FPGA	<input type="checkbox"/> Fiber Optics	<input type="checkbox"/> Flash370i	<input type="checkbox"/> Framer
<input type="checkbox"/> Framing Character	<input type="checkbox"/> Framing Mode	<input type="checkbox"/> Gigabit Ethernet	<input type="checkbox"/> Hex	<input type="checkbox"/> High Speed Serial Links	<input type="checkbox"/> Hotlink
<input type="checkbox"/> HotlinkI	<input type="checkbox"/> HotlinkII	<input type="checkbox"/> IP	<input type="checkbox"/> Isr	<input type="checkbox"/> Jtag	<input type="checkbox"/> LFI
<input type="checkbox"/> LVTTTL	<input type="checkbox"/> Logic Level	<input type="checkbox"/> Loop Back	<input type="checkbox"/> Macrocell	<input type="checkbox"/> Max340	<input type="checkbox"/> Model
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<input type="checkbox"/> PECL	<input type="checkbox"/> PLD	<input type="checkbox"/> PLL	<input type="checkbox"/> Parallel Input	<input type="checkbox"/> Parallel Output	<input type="checkbox"/> Parity
<input type="checkbox"/> Phase Align Buffer	<input type="checkbox"/> PoF	<input type="checkbox"/> Point To Multi Point	<input type="checkbox"/> Point To Point	<input type="checkbox"/> Power Supply	<input type="checkbox"/> Programming
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<input type="checkbox"/> Report File	<input type="checkbox"/> Reprogrammable	<input type="checkbox"/> SMA	<input type="checkbox"/> SMPTE	<input type="checkbox"/> SMPTE-259M	<input type="checkbox"/> SMPTE-292M
<input type="checkbox"/> SONET	<input type="checkbox"/> SPICE	<input type="checkbox"/> SPLD	<input type="checkbox"/> STAPL	<input type="checkbox"/> SVF	<input type="checkbox"/> Serial Input
<input type="checkbox"/> Serial Output	<input type="checkbox"/> Serializer	<input type="checkbox"/> Simulator	<input type="checkbox"/> Size	<input type="checkbox"/> Special Character	<input type="checkbox"/> Specification
<input type="checkbox"/> TTL	<input type="checkbox"/> Temperature	<input type="checkbox"/> Third Party Tool	<input type="checkbox"/> Transceiver	<input type="checkbox"/> Transmitter	<input type="checkbox"/> USBIRPC Cable



<input type="checkbox"/> Ultra37K	<input type="checkbox"/> User Guide	<input type="checkbox"/> VHDL	<input type="checkbox"/> Verilog	<input type="checkbox"/> Voltage	<input type="checkbox"/> Warp
<input type="checkbox"/> Word Sync Sequence					

PSoC 1 Tags

<input type="checkbox"/> ADC	<input type="checkbox"/> ADCINC	<input type="checkbox"/> Analog	<input type="checkbox"/> Analog Bus	<input type="checkbox"/> API	<input type="checkbox"/> Assembly Language
<input type="checkbox"/> Boot.asm	<input type="checkbox"/> Bootloader	<input type="checkbox"/> BSDL Files	<input type="checkbox"/> Build Errors	<input type="checkbox"/> Calibration	<input type="checkbox"/> Capsense
<input type="checkbox"/> Clock	<input type="checkbox"/> Clock Synchronization	<input type="checkbox"/> Cloning	<input type="checkbox"/> Column Clock	<input type="checkbox"/> Communication	<input type="checkbox"/> Comparator
<input type="checkbox"/> Compiler	<input type="checkbox"/> Counter	<input type="checkbox"/> CPU Speed	<input type="checkbox"/> Crystal	<input type="checkbox"/> CT Block	<input type="checkbox"/> DAC
<input type="checkbox"/> Debugging	<input type="checkbox"/> Decimator	<input type="checkbox"/> Delta Sigma ADC	<input type="checkbox"/> Development Kit	<input type="checkbox"/> Digital	<input type="checkbox"/> Dynamic Reconfiguration
<input type="checkbox"/> ECO	<input type="checkbox"/> EEPROM	<input type="checkbox"/> Errata	<input type="checkbox"/> Filter	<input type="checkbox"/> Flash	<input type="checkbox"/> Flash Security
<input type="checkbox"/> Global Resources	<input type="checkbox"/> GPIO	<input type="checkbox"/> Hex File	<input type="checkbox"/> I2C	<input type="checkbox"/> I2C-USB Bridge	<input type="checkbox"/> ICE Cube
<input type="checkbox"/> Installation	<input type="checkbox"/> Internet Explorer	<input type="checkbox"/> Interrupt	<input type="checkbox"/> ISR	<input type="checkbox"/> ISSP	<input type="checkbox"/> Large Memory Model
<input type="checkbox"/> LCD	<input type="checkbox"/> License	<input type="checkbox"/> MAC	<input type="checkbox"/> MiniProg1	<input type="checkbox"/> MiniProg3	<input type="checkbox"/> Mux
<input type="checkbox"/> Mux Bus	<input type="checkbox"/> OCD	<input type="checkbox"/> Offset	<input type="checkbox"/> Pod	<input type="checkbox"/> Port and Pins	<input type="checkbox"/> Power Management
<input type="checkbox"/> Production Programmer	<input type="checkbox"/> PWM	<input type="checkbox"/> RAM	<input type="checkbox"/> RTC	<input type="checkbox"/> SAR	<input type="checkbox"/> SC Block
<input type="checkbox"/> SMP	<input type="checkbox"/> SPI	<input type="checkbox"/> System Level Design	<input type="checkbox"/> Timer	<input type="checkbox"/> UART	<input type="checkbox"/> USB
<input type="checkbox"/> USBUART	<input type="checkbox"/> Watchdog	<input type="checkbox"/> Amplifier UM	<input type="checkbox"/> Analog Reference	<input type="checkbox"/> Analog UM	<input type="checkbox"/> Build Tools
<input type="checkbox"/> Communication UM	<input type="checkbox"/> CRC UM	<input type="checkbox"/> CYFI	<input type="checkbox"/> Device Programming	<input type="checkbox"/> Digital UM	<input type="checkbox"/> DTMF
<input type="checkbox"/> Fan Controller UM	<input type="checkbox"/> Firmware UM	<input type="checkbox"/> FMEA	<input type="checkbox"/> Port Expander	<input type="checkbox"/> PSoC Power System Architecture	<input type="checkbox"/> Voltage Sequencer UM

PSoC 3/4/5 Tags

Component Tags					
<input type="checkbox"/> Analog Hardware Mux	<input type="checkbox"/> Analog Mux	<input type="checkbox"/> Boost Converter	<input type="checkbox"/> Bootloader / Bootloadable	<input type="checkbox"/> CAN	<input type="checkbox"/> CapSense_CSD



<input type="checkbox"/> Character LCD	<input type="checkbox"/> Clock	<input type="checkbox"/> Comparator	<input type="checkbox"/> Control / Status Register	<input type="checkbox"/> Counter	<input type="checkbox"/> CRC
<input type="checkbox"/> DAC	<input type="checkbox"/> Debouncer	<input type="checkbox"/> Delta Sigma ADC	<input type="checkbox"/> DFB	<input type="checkbox"/> DFB Assembler	<input type="checkbox"/> Die Temperature
<input type="checkbox"/> Digital Comparator	<input type="checkbox"/> Digital Multiplexer	<input type="checkbox"/> DMA	<input type="checkbox"/> EEPROM	<input type="checkbox"/> emFile SPI Mode	<input type="checkbox"/> EMIF
<input type="checkbox"/> EzI2C Slave	<input type="checkbox"/> Fan Controller	<input type="checkbox"/> Filter	<input type="checkbox"/> Frequency Divider	<input type="checkbox"/> Glitch Filter	<input type="checkbox"/> Global Signal Reference
<input type="checkbox"/> Graphic LCD	<input type="checkbox"/> I2C / I 2S	<input type="checkbox"/> iAP	<input type="checkbox"/> Interrupt	<input type="checkbox"/> LIN	<input type="checkbox"/> Logic Gates
<input type="checkbox"/> Lookup Table	<input type="checkbox"/> Manual Routing	<input type="checkbox"/> MDIO	<input type="checkbox"/> Mixer	<input type="checkbox"/> Opamp	<input type="checkbox"/> PGA
<input type="checkbox"/> Ports and Pins	<input type="checkbox"/> Power Monitor	<input type="checkbox"/> PRS	<input type="checkbox"/> PWM	<input type="checkbox"/> Quadrature Decoder	<input type="checkbox"/> Resistive Touch
<input type="checkbox"/> RTC	<input type="checkbox"/> RTD Calculator	<input type="checkbox"/> Sample / Track and Hold	<input type="checkbox"/> SAR ADC	<input type="checkbox"/> SAR Sequencer	<input type="checkbox"/> Segment LCD
<input type="checkbox"/> SGPIO	<input type="checkbox"/> Shift Register	<input type="checkbox"/> Sleep Timer	<input type="checkbox"/> SM / PMBus	<input type="checkbox"/> SPDIF	<input type="checkbox"/> SPI
<input type="checkbox"/> Sync	<input type="checkbox"/> Thermistor Calculator	<input type="checkbox"/> Thermocouple Calculator	<input type="checkbox"/> TIA	<input type="checkbox"/> Timer	<input type="checkbox"/> TMP05 Interface
<input type="checkbox"/> TrimMargin	<input type="checkbox"/> UART	<input type="checkbox"/> UDBCIkEn	<input type="checkbox"/> USBFS	<input type="checkbox"/> USBMIDI	<input type="checkbox"/> USBUART (CDC Interface)
<input type="checkbox"/> Voltage Fault Detector	<input type="checkbox"/> Voltage Sequencer	<input type="checkbox"/> Vref	<input type="checkbox"/> WaveDAC		
General Tags					
<input type="checkbox"/> Analog Bus	<input type="checkbox"/> Analog Global Bus	<input type="checkbox"/> Analog Mux Bus	<input type="checkbox"/> API	<input type="checkbox"/> Application Specific	<input type="checkbox"/> Assembly Language
<input type="checkbox"/> Bootloader Host	<input type="checkbox"/> Boundary Scan / BSDL	<input type="checkbox"/> Bridge Control Panel	<input type="checkbox"/> Build Settings	<input type="checkbox"/> Clock	<input type="checkbox"/> Compiler - GCC
<input type="checkbox"/> Compiler - KEIL	<input type="checkbox"/> Compiler - MDK	<input type="checkbox"/> Compiler - RVDS	<input type="checkbox"/> Cortex-M0	<input type="checkbox"/> Cortex-M3	<input type="checkbox"/> Creator Registration
<input type="checkbox"/> Custom Component Interconnect	<input type="checkbox"/> Datapath Configuration Tool	<input type="checkbox"/> Debugging	<input type="checkbox"/> DMA Wizard	<input type="checkbox"/> DVK	<input type="checkbox"/> ECO
<input type="checkbox"/> Errata	<input type="checkbox"/> Error Message	<input type="checkbox"/> Flash	<input type="checkbox"/> Hex File	<input type="checkbox"/> Installation	<input type="checkbox"/> ISSP / HSSP
<input type="checkbox"/> KEIL Registration	<input type="checkbox"/> Linux Platform	<input type="checkbox"/> Low Power Modes	<input type="checkbox"/> LVD / HVD	<input type="checkbox"/> MFi	<input type="checkbox"/> MiniProg3
<input type="checkbox"/> Optimization	<input type="checkbox"/> Programmer COM	<input type="checkbox"/> PSoC Creator	<input checked="" type="checkbox"/> PSoC Programmer	<input type="checkbox"/> Reset	<input type="checkbox"/> RTOS
<input type="checkbox"/> Schematic	<input type="checkbox"/> Silicon	<input type="checkbox"/> Software Download	<input type="checkbox"/> STA	<input type="checkbox"/> Supply Voltage	<input type="checkbox"/> System Reference Guide
<input type="checkbox"/> Verilog	<input type="checkbox"/> Watchdog	<input type="checkbox"/> Windows Platform			
Kit Tags					
<input type="checkbox"/> CAN / LIN EBK	<input type="checkbox"/> CapSense Expansion EBK	<input type="checkbox"/> CY8CKIT-001 Kit	<input type="checkbox"/> CY8CKIT-030 / 050 Kit	<input type="checkbox"/> CY8CKIT-042 Kit	<input type="checkbox"/> Digital Audio EBK
<input type="checkbox"/> First Touch Kit	<input type="checkbox"/> LCD Segment Drive EBK	<input type="checkbox"/> MFi EBK	<input type="checkbox"/> Power Supervisor EBK	<input type="checkbox"/> PSoC 3/4/5 Processor Module	<input type="checkbox"/> Thermal Management EBK



Touch Sensing Tags

<input type="checkbox"/> ADC	<input type="checkbox"/> Air gap	<input type="checkbox"/> Backlighting	<input type="checkbox"/> Bleeder Resistor	<input type="checkbox"/> Bootloader	<input type="checkbox"/> CMOD
<input type="checkbox"/> CSA	<input type="checkbox"/> CSD	<input type="checkbox"/> CSD Parameters	<input type="checkbox"/> CSD2X	<input type="checkbox"/> CSDADC	<input type="checkbox"/> CSDAUTO
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USB Controllers Tags

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<input type="checkbox"/> C++	<input type="checkbox"/> CAT5	<input type="checkbox"/> CF Card	<input type="checkbox"/> CY3216	<input type="checkbox"/> CY3649	<input type="checkbox"/> CY3654
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<input type="checkbox"/> Hub	<input type="checkbox"/> I2C	<input type="checkbox"/> ICE	<input type="checkbox"/> IN Transfer	<input type="checkbox"/> Interrupt Transfer	<input type="checkbox"/> Interrupts
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Document History

Document Title: Updating CY8CKIT-042-BLE KitProg and CySmart USB Dongle Firmware – KBA96152

Document Number: 001-96152

Rev.	ECN No.	Orig. of Change	Description of Change
**	4657504	PMAD	New KB Article

Distribution: WEB

Posting: None