

|                   |  |               |  |                 |  |  |  |  |  |                 |  |
|-------------------|--|---------------|--|-----------------|--|--|--|--|--|-----------------|--|
|                   |  | PROJECT NAME: |  | STEVAL-IHT001V2 |  |  |  |  |  | August 31, 2012 |  |
| BILL OF MATERIALS |  |               |  |                 |  |  |  |  |  |                 |  |

| Item | Quantity | Reference                      | Part / Value             | Tolerance % | Voltage Current          | WATT | TECNOLOGY information                   | PACKAGE             | Manufacturer         | Manufacturer Code | RS/Distelec/OTHER Code Vendor | More Info             |
|------|----------|--------------------------------|--------------------------|-------------|--------------------------|------|---|---------------------|----------------------|-------------------|-------------------------------|-----------------------|
| 1    | 1        | CN1                            | Surface mount USB_mini-B | 30Vdc / 1A  |                          |      |   |                     | molex                | 54819-0572        | RS: 515-1995                  |                       |
| 2    | 1        | C1                             | 10uF                     | 20%         | 16V                      |      |   | TH.                 | any                  |                   | RS: 711-0911                  |                       |
| 3    | 2        | C2,C8,                         | 10nF                     | 20%         | 16V                      |      |   | 0805                | any                  |                   |                               |                       |
| 4    | 1        | C4                             | 4.7nF                    | 20%         | 16V                      |      |   | 0805                | any                  |                   |                               |                       |
| 5    | 2        | C5,C6                          | 22pF                     | 20%         | 16V                      |      |   | 0805                | any                  |                   |                               |                       |
| 6    | 8        | C7,C11,C12,C13,C14,C19,C22,C23 | 100nF                    | 20%         | 16V                      |      |   | 0805                | any                  |                   |                               |                       |
| 7    | 6        | C9,C10,C15,C16,C17,C18         | 0.1uF                    | 20%         | 16V                      |      |   | 1206                | any                  |                   |                               |                       |
| 8    | 1        | C20                            | 680nF                    | 20%         | 16V                      |      |   | 0805                | any                  |                   |                               |                       |
| 9    | 1        | C21                            | 1uF                      | +/-10%      | 16V                      |      | tantalium capacitor                     | SMD                 |                      |                   | RS:code:496-4043              |                       |
| 10   | 1        | C26                            | 100nF X2                 |             | 400VCC/220VCA            |      |   |                     | Epcos                | B32921C3103M      | Farnell: 1200827              |                       |
| 11   | 1        | C27                            | 2200uF                   | 20%         | 16V                      |      |   |                     | MULTICOMP            | MCRH16V228M13X21  | Farnell:9451781               |                       |
| 12   | 1        | C29                            | 1u X2                    | 10%         | 400VCC/220VCA            |      |   |                     | Epcos                | B32923C3105K      | RS: 334-710                   |                       |
| 13   | 1        | C30                            | 1nF                      |             | 50V                      |      |   | 1206                | any                  |                   |                               |                       |
| 14   | 4        | C28, C39, C40, C41             | 10nF                     | 10%         | 400VCC/220VCA            |      |   | TH. Hole pitch 10mm | Vishay               | BFC237251103      | RS:487-9923                   |                       |
| 15   | 3        | C31,C32,C33                    | 10nF                     | 20%         | 50V                      |      |   | 1206                |                      |                   |                               |                       |
| 16   | 2        | C34                            | dnf                      |             |                          |      |   | 0805                |                      |                   |                               | NOT ASSEMBLY          |
| 17   | 1        | C35                            | dnf                      |             |                          |      |   | 1206                |                      |                   |                               | NOT ASSEMBLY          |
| 18   | 1        | C38                            | 2.2nF                    |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 19   | 4        | C24, C25, C36, C37             | 1n                       | 20%         | 16V                      |      |   | 0805                | any                  |                   |                               |                       |
| 20   | 1        | D1                             | LED                      |             |                          |      |   | SMD                 | VISHAY               | VLMS30J1L2-GS08   | Farnell: 1328348RL            |                       |
| 21   | 1        | D2                             | Zener 5V6                |             |                          | 0.5W |   | SMD                 |                      |                   | RS : 544-3604                 |                       |
| 22   | 2        | D3, D10                        | 1N4148                   |             |                          |      |   |                     | Taiwan Semiconductor | LL4148 L0         | RS:652-7494                   |                       |
| 23   | 5        | D4,D5,D7,D8,D9                 | GREEN_LED                |             |                          |      |   | SMD                 | Osram                | LG T679-E2H1-1    | Distrelect: 631121            |                       |
| 24   | 1        | D6                             | RED_LED                  |             |                          |      |   | SMD                 | Osram                | LS T679-E1G2-1    | Distrelect: 631039            |                       |
| 25   | 2        | D11,D12                        | dnf                      |             |                          |      |   | SMD                 | Osram                | LG T679-E2H1-1    | Distrelect: 631121            | NOT ASSEMBLY          |
| 26   | 1        | F1                             | FUSE                     |             | Fuse 8.5X8.5mm 6.3A 250V |      |   |                     | Schurter             | 34.6623           | Distrelect:271358             |                       |
| 27   | 1        | N/A                            | FUSEHOLDER               |             |                          |      |   |                     | Schurter             | 3101.004          | RS code: 384-077              |                       |
| 28   | 1        | J1                             | TES 1-0511               |             |                          |      |   |                     | TRACOPOWER           | TES 1-0511        | RS code: 438-058              |                       |
| 29   | 1        | J2                             | SWIM_Connector           |             |                          |      | 4w Single row vert male smt connector   | SMD                 | ERNI                 | 214017            | RS code: 247-953              |                       |
| 30   | 1        | J3                             | SWD Connector            |             |                          |      | 10w DUAL BODY, SMT MICRO TERMINAL STRIP | Pitch 1.27mm        | Samtec               | FTS-105-01-F-DV   | Farnell: 1928487              |                       |
| 31   | 4        | J4,J5,J8,j18                   | CON3                     |             |                          |      |   | vertical TH         |                      |                   | RS code: 495-8470             | Stripline male 3ways  |
| 32   | 1        | J14                            | CON3                     |             |                          |      |   |                     | LUMBERG              | KRM 03            | Farnell:1177876               | 3-way screw connector |
| 33   | 4        | J10, J11, J12, J13             | Connector CON2           |             |                          |      |   |                     | LUMBERG              | KRM 02            | Farnell:1177875               | 3-way screw connector |
| 34   | 2        | J15 J16                        | Connector CON2           |             |                          |      |   | Passo: 2.54mm       | Phoenix              | mpt 0.5/2-2.54    | RS:220-4260                   | 3-way screw connector |
| 35   | 1        | PZ1                            | Buzzer                   |             |                          |      | BUZZER 4.0KHZ 1-20V 80DB PCB            |                     | Soberton Inc         | PT-1407           | Digikay:433-1057-ND           |                       |
| 36   | 1        | Q1                             | ACST6                    |             |                          |      |   | TO-220FPAB          | STMicroelectronics   | ACST610-8FP       |                               |                       |
| 37   | 1        | Q2                             | ACST110                  |             |                          |      |   | SOT-223             | STMicroelectronics   | ACS110-7SN        |                               |                       |
| 38   | 2        | Q3,Q4                          | ACS102-6TA               |             |                          |      |   | TO92                | STMicroelectronics   | ACS102-6TA        |                               |                       |
| 39   | 1        | R1                             | 330                      |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 40   | 2        | R2,R3                          | 1M                       |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 41   | 1        | R4                             | 10K                      |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 42   | 6        | R5,R7, R18,R39,R40,R41         | 10K                      |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 43   | 6        | R6,R9, R12,R13,R17,R19,R20     | 0                        |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 44   | 1        | R8                             | 1.5k                     |             |                          |      |   | 0805                | any                  |                   |                               |                       |
| 45   | 2        | R21,R22                        | 0(dnf)                   |             |                          |      |   | 0805                | any                  |                   |                               | NOT ASSEMBLY          |
| 46   | 1        | R23                            | 33R (metallic)           | 1%          |                          | 1/2W |   | TH                  | Welwyn               |                   | RS:163-325                    |                       |
| 47   | 4        | R24, R51, R52, R53             | 56                       |             |                          | 1/4W |   | TH                  | any                  |                   |                               |                       |
| 48   | 1        | R25                            | 47R (metallic)           | 1%          |                          | 1/2W |   | TH                  | Welwyn               |                   | 149-638                       |                       |
| 49   | 2        | R26,R27                        | 150K (metallic)          | 1%          |                          | 1/4W |   | TH                  | Arcol                |                   | RS:487-8403                   |                       |
| 50   | 1        | R28                            | 100                      | 5%          |                          | 1/4W |   | 1206                | any                  |                   |                               |                       |
| 51   | 1        | R29                            | 100                      | 5%          |                          | 1/4W |   | 1206                | any                  |                   |                               |                       |

|                          |  |  |               |                 |  |  |  |  |                 |
|--------------------------|--|--|---------------|-----------------|--|--|--|--|-----------------|
|                          |  |  | PROJECT NAME: | STEVAL-IHT001V2 |  |  |  |  | August 31, 2012 |
| <b>BILL OF MATERIALS</b> |  |  |               |                 |  |  |  |  |                 |

| Item | Quantity | Reference                                   | Part / Value                | Tolerance % | Voltage Current | WATT | TECNOLOGY information | PACKAGE   | Manufacturer       | Manufacturer Code | RS/Distelec/OTHER Code Vendor | More Info               |
|------|----------|---|-----------------------------|-------------|-----------------|------|-----------------------|-----------|--------------------|-------------------|-------------------------------|-------------------------|
| 52   | 2        | R30,R31                                     | 90                          | 5%          |                 | 1/4W |                       | 1206      | any                |                   |                               |                         |
| 53   | 5        | R32,R33,R34,R35,R37                         | 350                         | 5%          |                 | 1/4W |                       | 1206      | any                |                   |                               |                         |
| 54   | 3        | R45,R48,R50                                 | dnf                         |             |                 |      |                       | SMD_1206  | any                |                   |                               | <b>NOT ASSEMBLY</b>     |
| 55   | 1        | R44,  | 10K                         |             |                 |      | potentiometer         |           |                    |                   |                               | <b>NOT ASSEMBLY</b>     |
| 56   | 1        | R49   | 30k                         | 5%          |                 |      |                       | SMD_1206  | any                |                   |                               |                         |
| 57   | 2        | R42,R43                                     | 300                         | 5%          |                 | 1/4W |                       | 1206      | any                |                   |                               |                         |
| 58   | 1        | R38   | 30                          | 5%          |                 | 1/4W |                       | 1206      | any                |                   |                               |                         |
| 59   | 1        | R36   | 51                          | 5%          |                 | 1/4W |                       | 1206      | any                |                   |                               |                         |
| 60   |          | RV1   | varistor                    |             |                 |      | MOV                   | Radiale   | Epcos              | B72207S0271K101   | RS: 204-2062                  |                         |
| 61   | 1        | SW1   | reset                       |             |                 |      |                       |           | Omron              | B3S-1000          | RS code: 183-701              |                         |
| 62   | 2        | SW2   | Door Switch                 |             |                 |      |                       |           | EAO                | 674345            | Farnell : 674345              | <b>Slider (2 poles)</b> |
| 63   | 1        | SW3   | T- PUSHBUTTON               |             |                 |      |                       |           | C & K COMPONENTS   | D6C30LFS          | Farnell : 1201368             |                         |
| 64   | 1        | SW4   | T+ PUSHBUTTON               |             |                 |      |                       |           | C & K COMPONENTS   | D6C30LFS          | Farnell : 1201368             |                         |
| 65   | 1        | SW5   | dnf                         |             |                 |      |                       |           | Omron              | B3S-1000          | RS code: 183-701              | <b>NOT ASSEMBLY</b>     |
| 66   | 1        | SW8   | ASE 22-L04                  |             |                 |      |                       | SMD       | Tyco Electronics   |                   | Distrelec: 201406             | <b>switch (2 poles)</b> |
| 67   | 9        | TP3, TP4, TP5, TP6, TP7,TP8,TP9, TP10, TP11 | Testing pointS              |             |                 |      |                       |           | Vero               | 20-2137           | Farnell : 8731128             | <b>box 100 pcs</b>      |
| 68   | 1        | U1  | STM32F103C6                 |             |                 |      |                       |           | STMicroelectronics | STM32F103C6T6ATR  |                               | <b>ST-SUPPLY</b>        |
| 69   | 1        | U2  | LD1117/SO                   |             |                 |      |                       | SO-8      | STMicroelectronics | LD1117D33TR       |                               |                         |
| 70   | 3        | U3,U4,U5                                    | ACPL-072L                   |             |                 |      |                       | SOIC      | Avago Technologies | ACPL-072L-000E    | RS 450-840                    |                         |
| 71   | 1        | U6  | STM8S003F3 TSSOP20          |             |                 |      |                       |           | STMicroelectronics | STM8S003F3P6      |                               |                         |
| 72   | 1        | U7  | USBUF02W6                   |             |                 |      |                       | SOT323-6L | STMicroelectronics | USBUF02W6         |                               |                         |
| 73   | 1        | Y1  | 8MHz                        |             |                 |      | 8MHz crystal          | SMD       | Fox Electronics    | FOXSLF/080        | RS code:671-9242              |                         |
| 74   | 4        | N/A   | Nylon Corner Spacer : Screw |             |                 |      |                       |           |                    |                   | Farnell : 707-0603            |                         |
| 75   | 4        | N/A   | Nylon Corner Spacer : Nut   |             |                 |      |                       |           |                    |                   | Farnell : 706-1857            |                         |
| 76   | 4        | N/A   | jumpers                     |             |                 |      |                       |           | TE Connectivity    | 881545-5          | RS code: 680-2398             |                         |