

X-NUCLEO-IDW01M1, BOM (1/1)

| Item | Quantity | Reference                                 | Description                                 | Note        | Package             | Manufacturer                                     | Manufacturer's                               | Value  |
|------|----------|---|---|-------------|---------------------|--|--|--|
| 1    | 10       | C1, C3, C5, C6, C7, C8, C9, C10, C11, C12 | Bypass capacitor / signal delay / filtering |             | 603                 | MURATA   | GRM188R71C104KA01D                           | 100nF 16V  |
| 2    | 1        | C2  | Bypass capacitor                            |             | 603                 | MURATA   | GCM188R71C105KA64D                           | 1uF 16V  |
| 3    | 1        | C4  | Bypass capacitor                            |             | 805                 | MURATA   | GCM21BR70J106KE22L                           | 10uF 6.3V  |
| 4    | 1        | CN8                                       | Arduino UNO R3 connector                    |             | FEMALE ON TOP       | HARWIN<br>SAMTEC                                 | M20-7820646<br>SSQ-106-03-G-S                | 6 pins, 2.54F                                      |
| 5    | 2        | CN6, CN9                                  | Arduino UNO R3 connector                    |             | FEMALE ON TOP       | HARWIN<br>SAMTEC                                 | M20-7820846<br>SSQ-108-03-F-S                | 8 pins, 2.54F                                      |
| 6    | 1        | CN5                                       | Arduino UNO R3 connector                    |             | FEMALE ON TOP       | HARWIN<br>SAMTEC                                 | M20-7821046<br>SSQ-110-03-F-S                | 10 pins, 2.54F                                     |
| 7    | 2        | CN7, CN10                                 | ST morpho connector                         |             | FEMALE ON<br>BOTTOM | 4UCON  | 18507<br>20565<br>20600                      | Strip 19x2p 2.54                                   |
| 8    | 1        | J1  | Debug connector                             | Not Mounted | Female in top       | STELVIO KONTEK                                   | 6778268508410-R                              | SOCKET CONNECTOR 8p R/A SINGLE ROW<br>pitch=1.27mm |
| 9    | 2        | J2  | Module IO for Development                   |             | 7pins x 2line       | --   | --   | strip 7x2p 2.54                                    |
| 10   | 2        | JP1, JP2                                  | Option jumper                               |             | 2pins x 1line       | --   | --   | strip 2p 2.54                                      |
| 11   | 2        | JP3, JP4                                  | Option jumper                               |             | 3pins x 1line       | --   | --   | strip 3p 2.54                                      |
| 12   | 1        | LED1                                      | Power LED                                   |             | 603                 | --   | --   | GREEN LED  |
| 13   | 1        | LED2                                      | Blinking while module is running            |             | 603                 | --   | --   | BLUE LED   |
| 14   | 1        | LED3                                      | Wi-Fi power UP                              |             | 603                 | --   | --   | RED LED  |
| 15   | 1        | LED4                                      | Wi-Fi link UP                               |             | 603                 | --   | --   | YELLOW LED   |
| 16   | 3        | R3, R19, R21                              | Option resistor (default)                   |             | 603                 | --   | --   | 0 Ohm  |
| 17   | 1        | R15                                       | Filter for IRQ signal                       |             | 603                 | --   | --   | 100 Ohm ±5%  |
| 18   | 3        | R18, R22, R23                             | Current polarization for LEDs               |             | 603                 | --   | --   | 270 Ohm ±5%  |
| 19   | 1        | R5  | Current polarization for power LED          |             | 603                 | --   | --   | 470 Ohm ±5%  |
| 20   | 4        | R1, R13, R16, R17                         | Current limitation for 3.3V signal          |             | 603                 | --   | --   | 4.7K ±5%   |
| 21   | 1        | R24                                       | Signal pull-up                              |             | 603                 | --   | --   | 10K ±5%  |
| 22   | 1        | R14                                       | Signal pull-down                            |             | 603                 | --   | --   | 220K ±5%   |
| 23   | 0        | R7, R20, R26, R28, R29, R30, R31, R32     | Option selection (optional)                 | Not Mounted | 603                 | --   | --   | NOT MOUNTED  |
| 24   | 4        | R2, R4, R6, R8                            | Option selection (default)                  |             | 805                 | --   | --   | 0 Ohm  |
| 25   | 0        | R9, R33, R34, R35, R36, R37, R38, R39     | Option selection (optional)                 | Not Mounted | 805                 | --   | --   | NOT MOUNTED  |
| 26   | 1        | U1  | LDO power supply                            |             | SOT323-5L           | STMicroelectronics                               | STLQ50C25R                                   | STLQ50C25R   |
| 27   | 1        | U2  | Signal level shifter                        |             | QFN10 (1.8x1.4)     | Any  | Interface between a 3.3 V bus<br>and a 2.5 V | Mounted on board STMicroelectronics ST2G3236QTR    |
| 28   | 2        | SW1, SW2                                  | User push button                            |             | SMD                 | ITT<br>IN SUNG METAL CO<br>ALPS<br>or equivalent | KSR221J<br>IT-1210-S<br>SKQYAB (G4822969M)   |  |
| 29   | 2        | TP1, TP2                                  | Test point                                  |             | 1pin                | --   | --   | strip 1p   |
| 30   | 1        | WF1                                       | SPWF01SA Serial-to-Wi-Fi Modules            |             | 15.24x26.924        | STMicroelectronics                               | SPWF01SA.11                                  | SPWF01SA.11 (Serial-to-Wi-Fi Modules)              |
| 31   | 1        | PCB                                       | X-NUCLEO-IDW01M1 PCB                        |             | 54.5x70mm           | --   | --   | P.C.B. PC91A.V03                                   |