


| Bill of Materials           |                            | Door Zone Generation 2021 Evaluation Board   |          | <br><small>the augmented</small> |                        |             |                        |  |
|-----------------------------|----------------------------|--|----------|---|------------------------|-------------|------------------------|--|
| Source Data From:           | DZGen2021_EvalBoard_PriPcb |  |          |   |                        |             |                        |  |
| Project:                    | DZGen2021_EvalBoard_PriPcb |  |          |   |                        |             |                        |  |
| Variant:                    | Basic_variant              |  |          |   |                        |             |                        |  |
| Creation Date:              | 28.2.2018                  | 13:48:14   |          |   |                        |             |                        |  |
| Print Date:                 | 28-Feb-18                  | 1:48:29 PM   |          |   |                        |             |                        |  |
| Production Quantity:        | 1                          |  |          |   |                        |             |                        |  |
| Currency:                   | <none>                     |  |          |   |                        |             |                        |  |
| Footprint                   | Comment                    | Designator   | Quantity | Supplier 1  | Supplier Part Number 1 | Supplier 2  | Supplier Part Number 2 | Description  |
| CES D 6.3x5.4 RM7.8         | 47uF                       | C1, C100   | 2        | Farnell   | 2254431                | GME         | 906-063                | 47uF Electrolytic capacitor                                    |
| C0805                       | 10nF                       | C2   | 1        | Farnell   | 1759286                | GME         | 906-084                | 10nF Ceramic capacitor   |
| C0805                       | 10nF                       | C4, C7, C8, C33, C34, C37, C103, C112, C114, C115  | 10       | Farnell   | 1759246                | GME         | 906-089                | 10nF Ceramic capacitor   |
| C0805                       | 22nF                       | C17, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24   | 14       | Farnell   | 578198                 | GME         | 905-084                | 22nF Ceramic capacitor   |
| C0805                       | 47nF                       | C25, C26, C107, C108, C109, C110   | 6        | Farnell   | 1759280                | GME         | 906-093                | 47nF Ceramic capacitor   |
| EL_17x30                    | 3.3mF                      | C27  | 1        | Farnell   | 1902902                | GME         | 123-241                | 3.3mF electrolytic capacitor                                   |
| C0805                       | 4.7nF                      | C32  | 1        | Farnell   | 1759241                | GME         | 906-099                | 4.7nF Ceramic capacitor  |
| C0805                       | 220nF                      | C36, C101, C102  | 3        | Farnell   | 1668878                | GME         | 906-136                | 220nF Ceramic capacitor  |
| C0805                       | 10uF                       | C104, C105, C118   | 3        | Farnell   | 1759191                | GME         | 906-077                | 10uF Ceramic capacitor   |
| C1206                       | 1uF                        | C108   | 1        | Farnell   | 2310432                | GME         | 905-148                | 1uF Ceramic capacitor  |
| C0805                       | 470nF                      | C111, C113   | 2        | Farnell   | 1833895                | GME         | 906-120                | 470nF Ceramic capacitor  |
| C0805                       | 100nF                      | C116, C120, C121, C122, C123, C124   | 6        | Farnell   | 1759265                | GME         | 906-096                | 100nF Ceramic capacitor  |
| C1206                       | 4.7uF                      | C119   | 1        | Farnell   | 9406573                | GME         | 905-195                | 4.7uF Ceramic capacitor  |
| SMA                         | STTH102AY                  | D1, D2, D3, D4, D5, D6, D7, D100   | 8        | STMicroelectronics  | STTH102AY              |             |                        |  |
| ARK_500/2                   | ARK_500/2                  | J1, J39, J58, J71, J72, JP1, JP3, JP6  | 8        | Farnell   | 1624286                | GME         | 821-003                | ARK_500/2 connector  |
| PN                          | PN                         | J2, J3, J5, J8, J7, J8, J10, J13, J14, J15, J16, J17, J18, J19, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J32, J33, J34, J35, J36, J37, J40, J41, J42, J43, J44, J45, J46, J47, J48, J49, J50, J51, J52, J53, J54, J55, J56, J57, J58, J60, J61, J62, J63, J64, J65, J69, J70, J73, J74, J100, J101, J102, J103, J104 | 65       | Farnell   | 2751383                |             |                        |  |
| JUMP_2                      | Pin_1x2                    | J4, J12, JP2, JP7, JP8, JP9, JP10, JP12, JP100, JP102, JP103   | 11       | Farnell   | 2505044                | GME         | 832-359                | Simple pin (for 2.54mm pitch array)                            |
| PN_1x3                      | Pin_1x3                    | J9, J38  | 2        | Farnell   | 2026547                | GME         | 932-360                | Header, 3-Pin, 2.54mm  |
| DSUB_9M                     | Cannon 9M                  | J11  | 1        | Farnell   | 1653975                | GME Farnell | 1848368                | Socket Assembly, 9 Position, Right Angle                       |
| PN_1x5                      | Pin_1x5                    | J20  | 1        | Farnell   | 2035529                | GME         | 932-362                | Header, 5-Pin, 2.54mm  |
| ARK_500/16                  | ARK_500/16                 | J29  | 1        | Farnell   | 2x 2067361             |             |                        | ARK_500/16 connector   |
| DP8_SMD                     | DIP_8pin                   | J66, J67   | 2        | Farnell   | 1455491                |             |                        | DIP/SIP 8x switch  |
| MLW14                       | JTAG_PPC                   | J105   | 1        | Farnell   | 3816278                | GME         | 800-046                | JTAG socket, 14-Pin  |
| DB_COMM_SOCKET              | DB_COMM                    | J106   | 1        | Farnell   | 1803653 + 1885918      | GME         | 832-041 + 832-009      | Communication daughterboard                                    |
| JUMP_3                      | Pin_1x3                    | J95, JP11, JP101   | 3        | Farnell   | 2036547                | GME         | 832-017                | Header, 3-Pin, 2.54mm  |
| JUMP_4                      | Pin_1x3+1                  | J95  | 1        | Farnell   | 2036547                | GME         | 832-017                | Jumper, 1x3+1  |
| CAN_CMC                     | CM_Coil                    | L1   | 1        | Farnell   | 2215828                |             |                        | CAN Common Mode Coil   |
| ST_logo_augmented 2         | Label_ST LOGO              | LB100  | 1        |   |                        |             |                        | ST logo  |
| ST_EV9_RoHS                 | Label_RoHS                 | LB101  | 1        |   |                        |             |                        | RoHS compliance  |
| ST_EV9_Disclaimer           | Label_DISCLAIMER           | LB102  | 1        |   |                        |             |                        | Demo board disclaimer  |
| LED_0805                    | Green LED                  | LED1, LED2, LED4, LED6, LED8, LED10, LED11, LED12, LED13, LED14, LED15, LED17, LED19, LED21, LED22, LED23, LED24, LED25, LED100, LED103  | 20       | Farnell   | 1886075                | GME         | 960-346                | Green LED  |
| LED_0805                    | Orange LED                 | LED3, LED5, LED7, LED9, LED16, LED18, LED20, LED101, LED102  | 9        | Farnell   | 2290332                | GME         | 960-345                | Orange LED   |
| R0805                       | 1k                         | R2, R4, R5, R6, R14, R15, R16, R19, R20, R21, R47, R100, R101, R102, R104, R107, R108, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123  | 31       | Farnell   | 2073606                | GME         | 901-178                | 1k Resistor  |
| R0805                       | 0R                         | R3   | 1        | Farnell   | 9233750                | GME         | 901-170                | 0R Resistor  |
| R0805                       | 100k                       | R7, R26, R27, R33, R34, R39, R40, R69, R70   | 9        | Farnell   | 2073608                | GME         | 901-172                | 100k Resistor  |
| R0805                       | 10k                        | R8, R16, R125  | 3        | Farnell   | 2073607                | GME         | 901-176                | 10k Resistor   |
| R0805                       | 2k                         | R9   | 1        | Farnell   | 2073690                | GME         | 901-210                | 2k Resistor  |
| R0805                       | 22k                        | R13  | 1        | Farnell   | 9237798                | GME         | 901-202                | 22k Resistor   |
| R0805                       | 62R                        | R24, R25, R29, R30, R37, R38, R65, R66, R108, R106   | 10       | Farnell   | 2073819                | GME         | 901-433                | 62R Resistor   |
| R0805                       | 4k7                        | R29, R41, R42, R43, R44, R45, R46, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R109, R124  | 25       | Farnell   | 2073779                | GME         | 901-188                | 4k7 Resistor   |
| R0805                       | 220R                       | R48  | 1        | Farnell   | 2073606                | GME         | 901-634                | 220Ohm Resistor  |
| R0805                       | 6k8                        | R103   | 1        | Farnell   | 2073823                | GME         | 901-584                | 6k8 Resistor   |
| Scopek                      | Stand                      | S100, S101, S103, S104   | 4        |   |                        |             |                        | Mounting hole  |
| DIP_PUSH_BUTTON             | Push button                | SP1, SP2, SP102  | 3        |   |                        |             |                        | Push button  |
| DL4                         | DIP_2PIN                   | SP100  | 1        | Farnell   | 9472126                | GME         | 632-002                | DIP/SIP throw hole switch                                      |
| SOT23                       | BSS84                      | T1   | 1        | Farnell   | 1094997                | GME         | 912-041                | P-Channel Enhancement Mode Vertical DMOS FET                   |
| Powerflat_5x6_Single_Island | STL64NF7                   | T2   | 1        | STMicroelectronics  | STL64NF7               |             |                        | NMOS   |
| SOT23                       | BSS138                     | T3, T4, T100   | 3        | Farnell   | 9845330                | GME         | 912-044                | N-Channel Enhancement Mode Vertical DMOS FET                   |
| SOT23                       | BC857                      | T5   | 1        | Farnell   | 1902487                | GME         | 912-020                | PNP  |
| SOT23                       | BC847                      | T6, T7   | 2        | Farnell   | 1260803                | GME         | 912-015                | NPN  |
| Powerflat 5x6 double island | STL76DN4LF7                | T8, T9, T10, T11   | 4        | ST Internal   | STL76DN4LF7            |             |                        | Dual N-Channel Power mosfet                                    |
| Powerflat 5x6 double island | STL19N3LLH6AG              | T12, T13   | 2        | ST Internal   | STL19N3LLH6AG          |             |                        | Single N-Channel Power mosfet, double island footprint         |
| SMAJ                        | SMAJ40CA                   | T1   | 1        | STMicroelectronics  | SMAJ40CA               |             |                        | SMAJ40CA   |
| DB_DZ_Gen2021_Socket        | DB_DZ_Gen2021              | U1   | 1        | Farnell   | 1885918                | GME         | 4x 832-009             | Socket for the DZ Gen2021 daughterboard                        |
| PPAK                        | LS300RPT                   | U100   | 1        | ST Internal   | LS300RPTTR             |             |                        | 300mA, Low Dropout (0.5V) Voltage Regulator with voltage reset |
| TOPF100-Chorus              | SPCS82B                    | U101   | 1        | ST Internal   | SPCS82B60              |             |                        | Chorus 1M, 100pin  |
| CRYSTAL_SMD                 | 40MHz                      | X100   | 1        | Digi-Key  | 478-7156-1-ND          | Mouser      | 581-CX3225CA40DHS21    | Crystal 40MHz, 8pF, SMD Automotive -40+125C                    |
| Approved                    |                            | Notes  |          |   |                        |             |                        |  |



**Door Zone Generation 2021 - L99DZ200 Daughterboard**

**Bill of Materials**

Source Data From: DZGen2021\_DZ200\_Daughterboard.PrjPcb  
 Project: DZGen2021\_DZ200\_Daughterboard.PrjPcb  
 Variant: None

Creation Date: 26.1.2018 16:40:19  
 Print Date: 26-Jan-18 4:40:38 PM  
 Production Quantity: 1  
 Currency: <none>

| Footprint           | Comment                 | Designator | Quantity | Supplier 1  | Supplier Part Number 1 | Supplier 2 | Supplier Part Number 2 | Description                             |
|---------------------|-------------------------|------------|----------|-------------|------------------------|------------|------------------------|---|
| C0805               | 2,2uF                   | C1, C2     | 2        | Farnell     | 1907345                | GME        | 906-152                | 2,2uF Ceramic capacitor                 |
| C0805               | 100nF                   | C3, C4, C5 | 3        | Farnell     | 1759265                | GME        | 906-096                | 100nF Ceramic capacitor                 |
| C0805               | 220nF                   | C6, C7     | 2        | Farnell     | 1658878                | GME        | 906-136                | 220nF Ceramic capacitor                 |
| DB_DZ_Gen2021       | DB_DZ_Gen2021_Separated | J1         | 1        | Farnell     | 4x 1593446             | GME        | 4x 832-050             | Socket for the DZ Gen2021 daughterboard |
| ST_logo_augmented_2 | Label_ST LOGO           | LB1        | 1        |             |                        |            |                        | ST logo                                 |
| ST_EVB_RoHS         | Label_ROHS              | LB2        | 1        |             |                        |            |                        | RoHS compliance                         |
| PTQFP64             | L99DZ200                | U1         | 1        | ST Internal | L99DZ200               |            |                        | L99DZ200 device                         |

| Approved | Notes |
|----------|-------|
|          |       |

