

## DEMO9S12HY64 BOM, Rev B

| Item | Qty | P/N         | Title                  | Detail                                 | Reference(m)   | Vendor   | Vendor P/N            | Mfr      | Mfr P/N               |
|------|-----|-------------|------------------------|--|--|----------|-----------------------|----------|-----------------------|
| 1    | 2   | CCS101V50C  | Cap-Cer-Smt(R)         | (0603) 100pF,50V                       | C10,C11  | Emtek    | MA0603XR101K500       | Meritek  | MA0603XR101K500       |
| 2    | 1   | CCS103V50C  | Cap-Cer-Smt(R)         | (0603) .01uF,50V                       | C407   | Emtek    | MA0603XR103K500       | Meritek  | MA0603XR103K500       |
| 3    | 27  | CCS104V16C  | Cap-Cer-Smt(R)         | (0603) .1uF,16V                        | C3,C5-C8,C16,C21,C22,C24-C26,C28,C30,C403-C406,C408,C410,C413-C420 | Emtek    | MA0603XR104K160       | Meritek  | MA0603XR104K160       |
| 4    | 2   | CCS104V50D  | Cap-Cer-Smt(R)         | (0805) .1uF,50V                        | C20,C29  | Emtek    | MA0805XR104K500       | Meritek  | MA0805XR104K500       |
| 5    | 3   | CCS105V10C  | Cap-Cer-Smt(R)         | (0603) 1uF,10V                         | C15,C17,C18  | Emtek    | EM603XR105K100        |          |                       |
| 6    | 4   | CCS220V50C  | Cap-Cer-Smt(R)         | (0603) 22pF,50V, npo/cog,5%            | C1,C2,C401,C402  | Emtek    | MA0603CG220J500       | Meritek  | MA0603CG220J500       |
| 7    | 1   | CCS224V16C  | Cap-Cer-Smt(R)         | (0603) .22uF,16V                       | C14  | Emtek    | MA0603XR224K160       | Meritek  | MA0603XR224K160       |
| 8    | 1   | CCS471V50D  | Cap-Cer-Smt(R)         | (0805) 470pF,50V                       | C19  | Emtek    | MA0805XR471K500       | Meritek  | MA0805XR471K500       |
| 9    | 1   | CCS473V50C  | Cap-Cer-Smt(R)         | (0603) .047uF,50V                      | C9   | Emtek    | MA0603XR473K500       | Meritek  | MA0603XR473K500       |
| 10   | 2   | CCS475V16D  | Cap-Cer-Smt(R)         | (0805) 4.7uF,16V,X7R                   | C409,C412  | Mouser   | 81-GRM21BR71C475KA73  | Murata   | GRM21BR71C475KA73L    |
| 12   | 1   | CES106V35C  | Cap-Elec-Smt(R)        | (SMC) 10uF,35V, 5x5                    | C23  | Mouser   | 647-UWX1V100MCL1      | Nichicon | UWX1V100MCL1GB        |
| 11   | 1   | CES107V35D8 | Cap-Elec-Smt(R)        | (SMD8) 100uF,35V,6x7                   | C411   | Mouser   | 647-UWT1V101MCL1S     | Nichicon | UWT1V101MCL1GS        |
| 13   | 1   | CTS106V10A  | Cap-Tant-Smt(R)        | (SMA) 10uF,10V                         | C4   | Arrow    | TAJA106K010R          | Avx      | TAJA106K010R          |
| 14   | 1   | CTS106V16BE | Cap-Tant-Smt(R)        | (SMB) 10uF,16V,Lesr                    | C27  | Mouser   | 581-TPSB106K016R0800  | Avx      | TPSB106K016R0800      |
| 15   | 2   | CTS475V16D  | Cap-Tant-Smt(R)        | (SMD) 47uF,16V                         | C12,C13  | FAI      | 476K16DHS-LF          | Avx      | TAJD476K016R          |
| 22   | 1   | JBTT3-20    | Conn-Barl-Thru(R)      | Plug 2mm Barrel,RA                     | J11  | Emtek    | SCD-014               | Vimex    | SCD-014-PB            |
| 23   | 1   | JDT9SRA     | Conn-DB9-Thru(R)       | Socket (Female),RA                     | J8   | Emtek    | DNR-09SJB-SGF1        | Keltron  | DNR-09SJB-SGF1        |
| 30   | 1   | JSSB2X20P   | Conn-Hdr Skt PT-Smt(R) | 2x20 Hdr Skt,Pass Thru.,.055 Pin,LoPro | J1   | GradConn | BB02-KS402-K03-A00000 | GradConn | BB02-KS402-K03-A00000 |
| 24   | 3   | JPTA1X2     | Conn-Pin Hdr-Thru(R)   | 1x2 Header                             | Jp1,Jp2,Jp10   | Emtek    | PH1-2S-G-F1           | Keltron  | PH1-2S-G-F1           |
| 25   | 2   | JPTA1X3     | Conn-Pin Hdr-Thru(R)   | 1x3 Header                             | Jp8,Jp9  | Emtek    | PH1-3S-G-F1           | Keltron  | PH1-3S-G-F1           |
| 26   | 4   | JPTA2X2     | Conn-Pin Hdr-Thru(R)   | 2x2 Header                             | J4,Jp6,Jp11,Jp13   | Emtek    | PH2-4S-G-F1           | Keltron  | PH2-4S-G-F1           |
| 27   | 2   | JPTA2X3     | Conn-Pin Hdr-Thru(R)   | 2x3 Header                             | J2,Jp3   | Emtek    | PH2-6S-G-F1           | Keltron  | PH2-6S-G-F1           |
| 28   | 2   | JPTA2X4     | Conn-Pin Hdr-Thru(R)   | 2x4 Header                             | J3,J5  | Emtek    | PH2-8S-G-F1           | Keltron  | PH2-8S-G-F1           |
| 29   | 1   | JPTA2X9     | Conn-Pin Hdr-Thru(R)   | 2x9 Header                             | Jp14   | Emtek    | PH2-18S-G-F1          | Keltron  | PH2-18S-G-F1          |
| 31   | 1   | JYT1X4RASP  | Conn-Spec-Thru(R)      | 1X4 Minifit, Molex, RA                 | J7   | Mouser   | 538-39-30-3045        | Molex    | 39-30-3045            |
| 32   | 1   | JYT2X2RA    | Conn-Spec-Thru(R)      | 2X2 Minifit,Molex,RA                   | J10  | Mouser   | 538-39-29-1048        | Molex    | 39-29-1048            |
| 33   | 1   | JYTUSB-B    | Conn-USB-Thru(R)       | USB-B,RA                               | J401   | Emtek    | USB-B-HR-DNN          |          |                       |
| 73   | 1   | Y12MSA      | Crystal-Smt(R)         | (HC49S) 12.0MHz,18PF                   | Y401   | FAI      | 12.0000M-HC49SDT-LF   | Fox      | FOXSDLF/120-20/TR     |
| 74   | 1   | Y8MSA       | Crystal-Smt(R)         | (HC49S) 8MHz,18pF                      | Y1   | Avnet    | FOXSDLF/080-20        | Fox      | FOXSDLF/080-20        |

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| 16   | 2   | DGMMBZ27          | Dio-Smt(R)              | (Sot23) MMBZ27,TVS,27V, 40W,Uni Dir,CA        | D1,D2              | Digi-Key   | MMBZ27VAL-FDICT-ND      | Diodes Inc.   | MMBZ27VAL-7-F    |
| 17   | 2   | DGS1ASK           | Dio-Smt(R)              | (SMA) S1A,Rectifier, 1A,50V                   | D6,D8              | Emtek      | S1A                     | Micro Elec    | S1A              |
| 18   | 2   | DKSS12SE          | Dio-Smt(R)              | (SMA) SS12,Schtky,1A,20V                      | D4,D5              | Emtek      | SS12                    |               |                  |
| 21   | 1   | DTSMBJ24ASG       | Dio-Trans Sup-Smt(R)    | (SMB) SMBJ24A,600W                            | D3                 | Mouser     | 511-SMBJ24A             | St Micro      | SMBJ24A-TR       |
| 20   | 1   | DSC007            | Display-Custom-Thru(R)  | LCD Glass, Freescale, GD-5506P,5V             | DS1                | S-Tek, Inc | GD-5506P                | S-Tek         |                  |
| 77   | 1   | HX004-01          | HDW-Rubber Bumpon(R)    | 0.375"x0.15" (W x H), Hemi,Clear              | Feet               | Mouser     | 517-SJ-5306CL           | 3M            | SJ-5306 CLEAR    |
| 76   | 17  | HX003-01          | HDW-Shunt(R)            | .10 Shunt                                     | Shunts             | E-Call     | 0146-230-020            | E-Call        | 0146-230-020     |
| 66   | 3   | USS742G125LVC     | IC-Buffer-Smt(R)        | (Ssop8) 74LVC2G125, Dual,3-St                 | U406-U408          | Digi-Key   | 296-12164-1-ND          | TI            | SN74LVC2G125DCTR |
| 67   | 1   | USS742G126LVC     | IC-Buffer-Smt(R)        | (Ssop8) 74LVC2G126, Dual,3-St                 | U405               | Arrow      | SN74LVC2G126DCTR        | TI            | SN74LVC2G126DCTR |
| 69   | 1   | UST7219LMV        | IC-Comprr-Smt(R)        | (Sot23-5) LMV7219M5,R-R                       | U402               | Avnet      | LMV7219M5/NOPB          | Nat Semi      | LMV7219M5/NOPB   |
| 65   | 1   | US33661EF         | IC-Lin-Smt(R)           | (Soic8) MCZ33661E,Interface (alt TJA1020TD)   | U4                 | Freescale  | MCZ33661EF              | Freescale     | MCZ33661EF       |
| 36   | 1   | LVMC34164DK       | IC-Lvl Det5V-Smt(R)     | (Soic8) MC34164D,Reset                        | U401               | FAI        | MC34164D-5R2-LF         | On Semi       | MC34164D-5R2G    |
| 63   | 1   | UQ9S12HY64MC      | IC-Microp-Smt(R)        | (Lqfp100) MC9S12HY64                          | U1                 | Freescale  | Supplied                | Freescale     | PC9S12HY64JMLL   |
| 70   | 1   | UTMAX3387E        | IC-RS232-Smt(R)         | (Tsop24) MAX3387E, Xcvr,3V,ESD                | U3                 | Maxim.com  | MAX3387E                | Maxim/Dal Sem | MAX3387ECUG+     |
| 68   | 2   | USS74G66LVC2      | IC-Switch-Smt(R)        | (Ssop8) SN74LVC2G66DCT, Analog,Bilateral,Dual | U403,U404          | Digi-Key   | 296-13271-1-ND          | TI            | SN74LVC2G66DCTR  |
| 64   | 1   | US1040TTJA        | IC-Xcvr-Smt(R)          | (Soic8) TJA1040,Can,Hi Speed Only             | U2                 | Digi-Key   | 568-1149-1-ND           | NXP/Philips   | TJA1040TD-T      |
| 34   | 1   | LSF26D            | Ind-FB-Smt(R)           | (1206) 26 Ohms,Ferrite,EMI,1.5A               | Fb401              | Digi-Key   | 240-2403-1-ND           | Steward       | MI1206K260R-10   |
| 35   | 5   | LSF330C           | Ind-FB-Smt(R)           | (0805) 330 Ohms@ 100M,1.5A                    | Fb1-Fb4,Fb402      | Avnet      | BLM21PG331SN1D          | Murata        | BLM21PG331SN1D   |
| 19   | 6   | DLSB-G            | LED-Smt(R)              | (1206) Green                                  | D7,D401,Led1-Led4  | Emtek      | 150YG                   | Micro Elec    | 150YG            |
| 79   | 1   | DNI-MISC          | Misc-Not Installed      |   | Ct1-Ct4,Tp1-Tp3    | Axiom      | DNI-MISC                |               |                  |
| 78   | 1   | DNI-PART          | Part-Not Installed      |   | J9,Jp12,R5,R409    | Axiom      | DNI-PART                |               |                  |
| 75   | 1   | PCB-AXM0480       | Pcb(R)                  | Rev A DEMO9S12HY64, 5.5x5.0,2 Lyr             | Pcb                |            |                         |               |                  |
| 71   | 1   | UTQMC9S12UF32PU-4 | Prog'd IC-Microp-Smt(R) | (Tqfp100) MC9S12UF32PU, MCUSLK                | U400               | P&E        | UF32E_MCUSLK (Supplied) | Freescale     | MC9S12UF32PUE    |
| 38   | 2   | RCS102C           | Res-Carb-Smt(R)         | (0603) 1K Ohm,5%                              | R402,R403          | Emtek      | CR16-102J               | Meritek       | CR16-102J        |
| 39   | 1   | RCS102G           | Res-Carb-Smt(R)         | (2010) 1K Ohm,5%                              | R6                 | Mouser     | 660-RK73H2HTTE1001F     | Koa           | RK73H2HTTE1001F  |
| 40   | 6   | RCS103C           | Res-Carb-Smt(R)         | (0603) 10K Ohm,5%                             | R2,R8,R9,R410-R412 | Emtek      | CR16-103J               | Meritek       | CR16-103J        |
| 41   | 2   | RCS104C           | Res-Carb-Smt(R)         | (0603) 100K Ohm,5%                            | R413,R414          | Emtek      | CR16-104J               | Meritek       | CR16-104J        |
| 42   | 1   | RCS105C           | Res-Carb-Smt(R)         | (0603) 1M Ohm,5%                              | R401               | Emtek      | CR16-105J               | Meritek       | CR16-105J        |
| 43   | 1   | RCS152C           | Res-Carb-Smt(R)         | (0603) 1.5K Ohm,5%                            | R407               | Emtek      | CR16-152J-TR            | Meritek       | CR16-152J        |
| 44   | 1   | RCS332C           | Res-Carb-Smt(R)         | (0603) 3.3K Ohm,5%                            | R415               | Emtek      | CR16-332J-TR            | Meritek       | CR16-332J        |
| 45   | 1   | RCS333C           | Res-Carb-Smt(R)         | (0603) 33K Ohm,5%                             | R7                 | Emtek      | CR16-333J               | Meritek       | CR16-333J        |
| 46   | 1   | RCS471C           | Res-Carb-Smt(R)         | (0603) 470 Ohm,5%                             | R10                | Emtek      | CR16-471J               | Meritek       | CR16-471J        |
| 47   | 2   | RCS511C           | Res-Carb-Smt(R)         | (0603) 510 Ohm,5%                             | R404,R408          | Emtek      | CR16-511J               | Meritek       | CR16-511J        |

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|------|-----|--------------|---------------------|--|-------------------|----------|-------------------|---------------|----------------|
| 48   | 2   | RMS0330C     | Res-MF-Smt(R)       | (0603) 33 Ohm,1%                             | R405,R406         | Emtek    | CR16-0330F        | Meritek       | CR16-0330F     |
| 49   | 1   | RMS1101C     | Res-MF-Smt(R)       | (0603) 1.1K Ohm,1%                           | R417              | Emtek    | CR16-1101F        | Meritek       | CR16-1101F     |
| 50   | 1   | RMS3301C     | Res-MF-Smt(R)       | (0603) 3.30K Ohm,1%                          | R416              | Emtek    | CR16-3301F        | Meritek       | CR16-3301F     |
| 51   | 2   | RMS60R4F     | Res-MF-Smt(R)       | (1210) 60.4 Ohm, 1%,                         | R3,R4             | Digi-Key | P60.4AACT-ND      | Panasonic     | ERJ-14NF60R4U  |
| 52   | 3   | RNS103M      | Res-Netw-Smt(R)     | (0603x2) 10K Ohm,4P2R,Iso                    | Rn404,Rn405,Rn407 | Digi-Key | Y2103CT-ND        | Panasonic     | EXB-V4V103JV   |
| 53   | 1   | RNS103N      | Res-Netw-Smt(R)     | (0603x4) 10K Ohm,8P4R,Iso                    | Rn2               | Digi-Key | Y4103CT-ND        | Panasonic     | EXB-V8V103JV   |
| 54   | 1   | RNS271N      | Res-Netw-Smt(R)     | (0603x4) 270 Ohm,8P4R,Iso                    | Rn3               | Digi-Key | Y4271CT-ND        | Panasonic     | EXB-V8V271JV   |
| 55   | 2   | RNS332M      | Res-Netw-Smt(R)     | (0603x2) 3.3K Ohm,4P2R,Iso                   | Rn406,Rn408       | Digi-Key | Y2332CT-ND        | Panasonic     | EXB-V4V332JV   |
| 56   | 1   | RNS470M      | Res-Netw-Smt(R)     | (0603x2) 47 Ohm,4P2R,Iso                     | Rn403             | Digi-Key | Y2470CT-ND        | Panasonic     | EXB-V4V470JV   |
| 57   | 1   | RNS472M      | Res-Netw-Smt(R)     | (0603x2) 4.7K Ohm,4P2R,Iso                   | Rn402             | Digi-Key | Y2472CT-ND        | Panasonic     | EXB-V4V472JV   |
| 58   | 1   | RNS472N      | Res-Netw-Smt(R)     | (0603x4) 4.7K Ohm,8P4R,Iso                   | Rn401             | Mouser   | 660-CN1J4TTD472J  | Koa           | CN1J4TTD472J   |
| 59   | 1   | RNS473N      | Res-Netw-Smt(R)     | (0603x4) 47K Ohm,8P4R,Iso                    | Rn1               | Digi-Key | Y4473CT-ND        | Panasonic     | EXB-V8V473JV   |
| 60   | 1   | RPT502THW-01 | Res-Pot-Thru(R)     | (CE9M) 5K Ohm,Thumb Wheel,Offset pins        | RV1               | Emtek    | CE9MH2.5 5K WT    | Vimex         | CE9MH2.5 5K WT |
| 61   | 5   | STP02        | Sw-PB-Thru(R)       | Tact Sw,6mm Sq                               | Sw1-Sw4,Sw6       | Emtek    | EG1827            | E-Switch      | EG1827         |
| 62   | 1   | STS04        | Sw-Slide-Thru(R)    | EG1218,SPDT,Mini,<br>.45x.15,Plastic,.2A,30V | Sw5               | Digi-Key | EG1903-ND         | E-Switch      | EG-1218        |
| 37   | 2   | QMIRLML6402A | Trans-Mosfet-Smt(R) | (Sot23) IRLML6402CT, P-Ch, 20V,3.7A          | Q1,Q401           | Digi-Key | IRLML6402PBFCT-ND | Int Rectifier | IRLML6402TRPBF |
| 72   | 1   | VR7805LMD    | VReg-5V-Smt(R)      | (Dpak) LM7805,.5A                            | VR1               | Mouser   | 511-L78M05CDT     | St Micro      | L78M05CDT      |