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| TIDEP-0085 | | Board Name & Rev No | TMDXICE3359 - 2.1A | | Date of Release | 4/16/2013 | | | | | |
| | | Revision | 7 | | | | | | | | |
| | | Schematics File & Revision | TMDXICE3359_3H0013_R EV2_1A_SCH.dsn | | | | | | | | |
| Item Num | Quantity | Part Reference | Value | DescriptiveText | Mfr | MfrNum | PCB Footprint | TIIntPartnum ber | Vendor | Cost100 | Cost10K |
| 1 | 1 | A1 | OSD-9616 | LCD Passive Matrix Monochrome 96x16 | OSD Displays | OSD9616P0899-10 | - | 4P0034 | OSD Displays | 7.38 | 5.12 |
| 2 | 83 | C1 C2 C3 C5 C9 C10 C11 C12 C15 C34 C35 C36 C37 C43 C46 C56 C68 C69 C98 C106 C108 C109 C110 C111 C112 C113 C114 C116 C119 C120 C123 C124 C125 C130 C131 C132 C134 C135 C137 C139 C142 C143 C148 C149 C150 C151 C152 C155 C157 C160 C163 C164 C166 C169 C170 C171 C172 C173 C175 C177 C181 C182 C187 C189 C190 C192 C193 C194 C196 C197 C201 C202 C203 C204 C218 C219 C229 C236 C240 C254 C264 C275 C277 | 0.01uF | Capacitor 0.01uF 16V 10% 0402 | Panasonic | ECJ-0YB1C103K | SM-7351-CAP-0402 | 1C0012 | Digikey | 0.00 | 0.015 |
| 3 | 53 | C4 C6 C7 C14 C16 C17 C18 C19 C20 C21 C22 C32 C41 C55 C70 C71 C72 C73 C74 C75 C77 C78 C79 C80 C82 C83 C85 C86 C87 C88 C91 C93 C96 C159 C162 C167 C185 C188 C206 C207 C208 C213 C214 C220 C221 C225 C227 C230 C231 C232 C265 C269 C272 | 0.1uF | Capacitor 0.1uF 16V 10% 0402 X7R | Kemet | C0402C104K4RACT | SM-7351-CAP-0402 | 1C0089 | Digikey | 0.11 | 0.015 |
| 4 | 0 | C8 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 5 | 0 | C13 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 6 | 32 | C23 C27 C28 C29 C38 C39 C47 C54 C61 C64 C65 C67 C81 C84 C92 C94 C95 C101 C102 C104 C107 C121 C154 C178 C179 C205 C209 C210 C212 C215 C251 C260 | 10uF | Capacitor 10uF 16V 10% Ceramic 0805 | AVX | 0805YD106KAT2A | SM-7351-CAP-0805 | 1C0085 | Digikey | 0.19 | 0.042 |
| 7 | 2 | C24 C191 | 4.7uF | Capacitor 4.7uF 16V 20% Tantalum Low ESR | Nichicon | F951C475MRAAQ2 | sm-7351-cap-0805 | 1C0109 | Digikey | 0.33 | 0.17 |
| 8 | 32 | C25 C26 C30 C31 C103 C105 C115 C117 C118 C122 C126 C127 C128 C129 C133 C136 C138 C140 C141 C144 C146 C147 C153 C156 C158 C161 C165 C168 C174 C176 C180 C183 | 0.1uF, 6.3V | Capacitor 0.1uF 6.3V 10% 0201 X5R | Murata | GRM033R60J104KE19D | SMD0201 | 1C0122 | Digikey | 0.029 | 0.0090 |
| 9 | 3 | C33 C216 C273 | 0.001uF | Capacitor 0.001uF 50V 5% 0402 | AVX | 04025C102JAT2A | SM-7351-CAP-0402 | 1C0093 | Digikey | 0.015 | 0.007 |
| 10 | 2 | C40 C42 | 22pF | Capacitor 22pF 50V 10% 0402 | Panasonic | ECJ-0EC1H220J | SM-7351-CAP-0402 | 1C0020 | Digikey | 0.1678 | 0.1678 |
| 11 | 9 | C44 C45 C57 C58 C59 C66 C186 C257 C263 | 4.7uF | Capacitor Ceramic 4.7uF 16V 10% 0603 | Taiyo Yuden | EMK107ABJ475KA-T | SM-7351-CAP-0603 | 1C0103 | Digikey | 0.0198 | 0.00590 |
| 12 | 1 | C48 | 47uF | Capacitor 47uF 10V 10% Tantalum 2917 | AVX | TAJD476K010RNJ | 7343 | 1C0126 | Digikey | 0.19 | 0.045 |

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| 13 | 0 | C49 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 14 | 5 | C50 C53 C244 C245 C261 | 2.2uF | Capacitor 2.2uF Ceramic, 6.3V, X5R, 20% | Taiyo Yuden | JMK105BJ225MV-F | SM-7351-CAP-0402 | 1C0091 | Digikey | 0.50 | 0.0516 |
| 15 | 3 | C51 C52 C237 | 2.2uF, 10V | Capacitor 2.2uF 10V 20% Ceramic 0402 | Taiyo Yuden | LMK105BJ225MV-F | SM-7351-CAP-0402 | 1C0123 | Digikey | 0.xx | 0.xx |
| 16 | 5 | C60 C97 C217 C234 C258 | 2.2uF | Capacitor 2.2uF 16V 10% 0805 | Kemet | C0805C225K4RACTU | SM-7351-CAP-0805 | 1C0097 | Digikey | 0.5895 | 0.3592 |
| 17 | 2 | C62 C63 | 2.2uF | Capacitor 2.2uF 35V 20% Ceramic 0805 | TDK | C2012X7R1V225M | SM-7351-CAP-0805 | 1C0118 | Digikey | 0.19 | 0.045 |
| 18 | 13 | C76 C195 C198 C199 C200 C223 C226 C228 C238 C266 C268 C270 C271 | 1uF | Capacitor 1uF 10V Ceramic 10% 0402 | AVX | 0402ZD105KAT2A | SM-7351-CAP-0402 | 1C0084 | Digikey | 0.336 | 0.201 |
| 19 | 4 | C89 C90 C211 C222 | 18pF, 50V | Capacitor NPO 18pF 50V 5% 0402 | TDK | CGA2B2C0G1H180J | SM-7351-CAP-0402 | 1C0119 | Mouser | 0.19 | 0.045 |
| 20 | 2 | C99 C100 | 24pF | Capacitor 24pF 50V 5% 0402 | TDK | C1005C0G1H240J | SM-7351-CAP-0402 | 1C0128 | Digikey | 0.1678 | 0.0045 |
| 21 | 2 | C145 C184 | 100pF25V10% | Capacitor 100pF 25V 10% 0402 | Panasonic | ECJ-0EB1E101K | SM-7351-CAP-0402 | 1C0010 | Digikey | 0.152 | 0.152 |
| 22 | 1 | C224 | 4.7uF | Capacitor 4.7uF Ceramic, 6.3V, X5R, 20% | Taiyo Yuden | JMK107BJ475KA-T | SM-7351-CAP-0603 | 1C0092 | Digikey | 0.50 | 0.29 |
| 23 | 4 | C233 C248 C249 C262 | 10uF | Capacitor 10uF 50V 10% Ceramic 1206 | TDK | C3216X5R1H106K | SM-7351-CAP-1206 | 1C0113 | Digikey | 0.19 | 0.045 |
| 24 | 0 | C235 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 25 | 9 | C239 C241 C246 C247 C250 C253 C256 C259 C267 | 0.022uF | Capacitor 0.022uF 16V 10% Ceramic 0402 | TDK | C1005X7R1C223K | SM-7351-CAP-0402 | 1C0125 | Digikey | 0.19 | 0.045 |
| 26 | 2 | C242 C243 | 0.1uF | Capacitor 0.1uF 50V 10% 0402 X7R | TDK | C1005X7R1H104K | SM-7351-CAP-0402 | 1C0105 | Digikey | 0.11 | 0.0255 |
| 27 | 1 | C252 | 1uF | Capacitor 1uF 50V 10% Ceramic 0603 | Taiyo Yuden | UMK107BJ105KA-T | SM-7351-CAP-0603 | 1C0114 | Digikey | 0.19 | 0.045 |
| 28 | 1 | C255 | 10pF | Capacitor 10pF 50V 1% Ceramic 0402 | AVX | 04025U100FAT2A | SM-7351-CAP-0402 | 1C0115 | Digikey | 0.19 | 0.045 |
| 29 | 2 | D1 D2 | Red_Green_Yellow_LED | LED RedGreenYellow Tricolor 20mA 1.9/2.1V 1210 smd | Bivar | SM1210RGY | LED-SM1210 | 1F0012 | Digikey | 0.081 | 0.052 |
| 30 | 10 | D3 D6 D7 D8 D9 D10 D12 D14 D15 D16 | Green LED | LED Green SMD 20mA 2V 0805 | Dialight | 598-8170-107F | sm_led_0805 | 1F0008 | Digikey | 0.081 | 0.0370 |
| 31 | 2 | D4 D5 | LED Yellow | LED Yellow SMD 20mA 2V | LiteOn | LTST-S220KSKT | LEDLTST-S220 | 1F0000 | Newark | 0.24 | 0.24 |
| 32 | 3 | D11 D13 D20 | MBR0520LT1 | Diode 500mA 20V 0.3V Forward Drop | On Semiconductor | MBR0520LT1 | mbr0520L | 1E0007 | Newark | 0.44 | 0.1892 |
| 33 | 1 | D17 | B340A-13-F | Diode Power Rectifier 3A 40V Schottky | Diodes Inc | B340A-13-F | DO157LS_116X220S MA | 1E0024 | Digikey | 0.17 | 0.095 |
| 34 | 1 | D18 | MBRS140T | Diode 1A 40V 600mV Forward Drop | On Semiconductor | MBRS140T3G | mbrs140t | 1E0017 | Digikey | 0.23 | 0.431 |
| 35 | 1 | D19 | SMCJ26CA | Voltage Suppressor 26.0V | LittleFuse | SMCJ26CA | SMCJ36CA | 1E0021 | Digikey | 0.41 | 0.26 |
| 36 | 1 | F1 | Fuse 4A | Fuse Block with 4A Fuse | Littelfuse | 0154004.DRT | smdfuseblk | 1P0004 | Digikey | 1.41 | 2.0925 |
| 37 | 7 | FB2 FB3 FB9 FB10 FB11 FB12 FB13 | 150OHM800mA | Ferrite Bead 150 Ohm 800mA | Laird-Signal Integrity Products | LI0805H151R-10 | sm-7351-ind-0805 | 1L0010 | Digikey | 0.068 | 0.045 |
| 38 | 2 | J1 J2 | RJ-45 10_100Mb | Connector RJ-45 Jack w/mag_orgLED 10_100Mb AMDIX | Link | LPJ16183A107NL | CNRJ45-1X1WLED | 2J0023 | Link | 3.00 | 1.69 |
| 39 | 1 | J3 | Header 9x2 Female | Header 9x2 0.1in pitch female throughhole | FCI | 66953-009LF | HDR2X9VER_335M | 2H0069 | Digikey | 0.xx | 0.xx |

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| 40 | 1 | J4 | Header 15x2 Female | Header 15x2 0.1in pitch female throughhole | FCI | 66953-015LF | HDR2X15-344M | 2H0067 | Digikey | 0.xx | 0.xx |
| 41 | 2 | J5 J8 | TMS-103-01 | Header 1.27mm pitch 3pin | Samtec | TMS-103-01-G-S | SIP3_50LS | 2H0066 | Samtec | 0.xx | 0.xx |
| 42 | 3 | J6 J7 J10 | TMS-102-01 | Header 1.27mm pitch 2pin | Samtec | TMS-102-01-G-S | SIP2_50LS | 2H0065 | Samtec | 0.xx | 0.xx |
| 43 | 1 | J9 | Conn_DB9F | Connector DB9 Female RA SMD | Norcomp | 190-009-263R001 | NorComp_db9F_SMD | 2C0086 | Digikey | 1.74 | 1.16 |
| 44 | 1 | J11 | Power Jack RAPC722X | Jack Power Right Angle 2conductor 2.1mm center | Switchcraft | RAPC722X | CNRAPC722 | 2J0021 | Digikey | 0.90 | 0.68 |
| 45 | 0 | J12 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 46 | 1 | J13 | USB_MicroAB | Connector Micro USB AB RA | Hirose | ZX62-AB-5PA(11) | ZX62-AB-5PA | 2C0088 | Digikey | 0.67 | 0.57 |
| 47 | 1 | J14 | Header 20x2 Female | Header 20x2 0.1in pitch female throughhole | FCI | 66953-020LF | HDR2X20-335M | 2H0068 | Digikey | 0.xx | 0.xx |
| 48 | 0 | J15 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 49 | 1 | J16 | SCHA5B0200 | Connector compact low-profile Push Type Micro SD | ALPS | SCHA5B0200 | SD-MICRO-SCHA5B0300 | 2C0102 | Mouser | x.00 | x.00 |
| 50 | 1 | J17 | 10051922-1410ELF | Connector 0.5mm pitch, 14 Pin, FPC | FCI | 10051922-1410ELF | CON14_P5MM_3P75X9P5SMD | 2C0109 | Digikey | 0.xx | 0.xx |
| 51 | 2 | J18 J19 | HEADER 3 | Single Line Header 3pin Tin 0.1in pitch | Sullins | PEC03SAAN | header_3x1 | 2H0001 | Digikey | 0.263 | 0.263 |
| 52 | 1 | L1 | DA2304-AL | Power Transformer 45uH RS-485 | Coilcraft | DA2304-ALB | DA2304 | 1L0037 | Coilcraft | 1.25 | 0.38 |
| 53 | 1 | L2 | 2.2uH | Inductor 2.2uH smt 1A 20% | TDK | VLF3010AT-2R2M1R0 | IND108SMD_110X102 | 1L0044 | Digikey | 1.11 | 0.3501 |
| 54 | 1 | L3 | 68uH | Inductor 68uH smt 1A 20% | TDK | VLF10040T-680M1R4 | IND_354SMD_400SQ | 1L0045 | Digikey | 1.11 | 0.3501 |
| 55 | 3 | L4 L5 L7 | 2.2uH | Inductor 2.2uH smt 2.6A, 58 milliohm | TDK | VLCF5020T-2R2N2R6-3 | VLCF5020T | 1L0025 | Digikey | 1.11 | 0.3501 |
| 56 | 1 | L6 | ACM2012 | Common Mode Filter for USB/HDMI | TDK | ACM2012H-900-2P | ACM2012H | 1M0003 | Arrow | 1.11 | 0.33 |
| 57 | 1 | PCB1 | AM335x ICE V2.0Board Bare PCB | AM335x ICE V2.0 EVM PCB Bare | TI | 3H0013 | DNP | 3H0013 | TI | 0.00 | 0.00 |
| 58 | 4 | Q1 Q2 Q3 Q4 | DMC564040R | Dual Transistor NPN 50V 100mA | Panasonic | DMC564040R | SMINI6-F3-B | 1Q0023 | Digikey | 0.18 | 0.030 |
| 59 | 13 | R1 R2 R3 R4 R5 R6 R89 R93 R94 R98 R128 R130 R131 | 330 | Resistor 330ohm 1/16W 5% 0402 | Stackpole Electronics | RMCF0402JT330R | SM-7351-RES-0402 | 1R0194 | Digikey | 0.007 | 0.02465 |
| 60 | 25 | R7 R8 R15 R16 R18 R19 R61 R90 R92 R95 R97 R110 R112 R113 R114 R124 R129 R135 R145 R174 R196 R205 R207 R243 R244 | 2.2K | Resistor 2.2Kohm 1/16W 5% 0402 | VishayDale | CRCW04022K20JNED | sm-7351-res-0402 | 1R0169 | Digikey | 0.051 | 0.004 |
| 61 | 2 | R9 R10 | 4.87K | Resistor 4.87Kohm 1/10W 1% 0402 | Panasonic | ERJ-2RKF4871X | SM-7351-RES-0402 | - | Digikey | - | - |
| 62 | 13 | R11 R37 R44 R45 R50 R54 R55 R63 R178 R184 R188 R191 R195 | 10K, 1% | Resistor 10Kohm 1/10W 1% 0402 | Panasonic-ECG | ERJ-2RKF1002X | SM-7351-RES-0402 | 1R0254 | Digikey | 0.011 | 0.00291 |

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| 63 | 9 | R12 R13 R42 R154 R179 R180 R181 R182 R186 | 33 | Resistor 33ohm 1/16W 5% 0402 | Panasonic | ERJ-2GEJ330X | SM-7351-RES-0402 | 1R0008 | Digikey | 0.02595 | 0.0020 |
| 64 | 9 | R14 R24 R25 R39 R70 R71 R137 R277 R278 | 4.7K | Resistor 4.7Kohm 1/16W 5% 0402 | Stackpole Electronics | RMCF0402JT4K70 | SM-7351-RES-0402 | 1R0183 | Digikey | 0.007 | 0.02465 |
| 65 | 0 | R17 R22 R23 R26 R35 R36 R126 R138 R139 R222 R223 R224 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 66 | 0 | R20 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 67 | 20 | R21 R65 R67 R75 R101 R111 R125 R187 R197 R199 R200 R206 R210 R211 R231 R233 R234 R235 R236 R237 | 10K | Resistor 10Kohm 1/16W 5% 0402 | Rohm | MCR01MZPJ103 | SM-7351-RES-0402 | 1R0168 | Digikey | 0.03 | 0.0017 |
| 68 | 0 | R27 R28 R29 R30 R31 R32 R33 R34 R134 R148 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 69 | 14 | R38 R152 R153 R157 R158 R161 R162 R163 R165 R166 R167 R168 R171 R176 | 100K | Resistor 100Kohm 1/16W 1% 0402 | Stackpole Electronics | RMCF0402FT100K | SM-7351-RES-0402 | 1R0181 | Digikey | 0.0105 | 0.0020 |
| 70 | 17 | R40 R41 R59 R87 R88 R99 R100 R102 R103 R104 R106 R107 R108 R109 R115 R127 R177 | 1K | Resistor 1Kohm 1/16W 5% 0402 | Panasonic | ERJ-2GEJ102X | SM-7351-RES-0402 | 1R0027 | Digikey | 0.02595 | 0.02595 |
| 71 | 0 | R43 R46 R47 R48 R49 R51 R52 R53 R56 R57 R159 R160 R164 R169 R170 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 72 | 1 | R58 | 22 | Resistor 22 ohm 1/16W 1% 0402 | ROHM | MCR01MZPF22R0 | SM-7351-RES-0402 | 1R0175 | Digikey | 0.069 | 0.00529 |
| 73 | 27 | R60 R64 R69 R72 R91 R96 R105 R142 R146 R147 R149 R150 R156 R175 R190 R192 R194 R198 R201 R202 R203 R204 R209 R225 R228 R229 R230 | 0 | Resistor Zero ohm Jumper 0402 | Panasonic | ERJ-2GE0R00X | SM-7351-RES-0402 | 1R0098 | Digikey | 0.08 | 0.0020 |
| 74 | 0 | R62 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 75 | 1 | R66 | 3.24K | Resistor 3.24Kohm 1/10W 1% 0402 | Panasonic | ERJ-2RKF3241X | SM-7351-RES-0402 | 1R0266 | Digikey | 0.007 | 0.02465 |
| 76 | 8 | R68 R74 R79 R80 R81 R83 R84 R226 | 1.2K, MELF | Resistor 1.2Kohm 1/3W 1% MELF0102 | Vishay | MMU01020C1201FB300 | smd_melf0102 | 1R0265 | Digikey | 0.007 | 0.02465 |
| 77 | 17 | R73 R76 R77 R78 R85 R86 R213 R214 R215 R216 R217 R239 R240 R241 R242 R279 R280 | 0 | Resistor Zero ohm Jumper 0603 | Panasonic | ERJ-3GEY0R00V | SM-7351-RES-0603 | 1R0096 | Digikey | 0.08 | 0.058 |
| 78 | 1 | R82 | 25K | Resistor 25Kohm 1/10W 0.1% 0603 | Vishay | PNM0603E2502BST5 | SM-7351-RES-0603 | 1R0223 | Digikey | 0.007 | 0.02465 |
| 79 | 9 | R116 R117 R118 R119 R120 R121 R122 R123 R185 | 49.9 | Resistor 49.9ohm 1/16W 1% 0402 | Panasonic | ERA-2AEB49R9X | SM-7351-RES-0402 | 1R0171 | Digikey | 0.064 | 0.064 |
| 80 | 9 | R132 R133 R136 R140 R143 R151 R155 R173 R208 | 150 | Resistor 150ohm 1/16W 5% 0402 | Stackpole Electronics | RMCF0402JT150R | SM-7351-RES-0402 | 1R0179 | Digikey | 0.011 | 0.00132 |
| 81 | 0 | R141 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 82 | 0 | R144 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 83 | 0 | R172 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 84 | 1 | R183 | 240, 1% | Resistor 240 OHM 1/10W 1% 0402 SMD | Panasonic-ECG | ERJ-2RKF2400X | SM-7351-RES-0402 | 1R0249 | Digikey | 0.02 | 0.00132 |
| 85 | 1 | R189 | 4.75K, 1% | Resistor 4.75KOHM 1/10W 1% 0402 SMD | Panasonic-ECG | ERJ-2RKF4751X | SM-7351-RES-0402 | 1R0250 | Digikey | 0.02 | 0.00132 |

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| 86 | 1 | R193 | 12.1K, 1% | Resistor 12.1K OHM 1/16W 1% 0402 SMD | Yageo | RC0402FR-0712K1L | SM-7351-RES-0402 | 1R0247 | Digikey | 0.02 | 0.00132 |
| 87 | 2 | R212 R219 | 0.05ohm1% Sense | Resistor 0.05ohm 0.5W Sense 1% 1206 | Ohmite | LVK12R050FER | SM_RES_LVK12 | 1R0189 | Digikey | 0.47 | 0.19 |
| 88 | 0 | R218 | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI | DNI |
| 89 | 1 | R220 | 1.62M | Resistor 1.62Mohm 1/16W 1% 0402 | Vishay/Dale | CRCW04021M62FKED | SM-7351-RES-0402 | 1R0210 | Digikey | 0.011 | 0.00291 |
| 90 | 1 | R221 | 180K | Resistor 180Kohm 1/16W 1% 0402 | Stackpole Electronics | RMCF0402JT180K | SM-7351-RES-0402 | 1R0209 | Digikey | 0.011 | 0.00291 |
| 91 | 1 | R227 | 49.9 | MELF Resistor 49.9ohm 1/3W 1% MELF0102 | Vishay | MMU01020C4999FB300 | smd_melf0102 | 1R0243 | Digikey | 0.0105 | 0.00275 |
| 92 | 1 | R232 | 392K | Resistor 392Kohm 1/10W 1% 0402 | Panasonic | ERJ-2RKF3923X | SM-7351-RES-0402 | 1R0267 | Digikey | 0.007 | 0.02465 |
| 93 | 1 | R238 | 120 | Resistor 120ohm 1/16W 1% 0402 | Vishay_Dale | CRCW0402120RFKED | SM-7351-RES-0402 | 1R0244 | Digikey | 0.007 | 0.02465 |
| 94 | 3 | RP1 RP2 RP3 | 33x8 | Resistor 33ohmx8 1/16W 5% Array SMD | Panasonic | EXB-2HV330JV | EXB-2HV330JV | 1R0196 | Digikey | 0.007 | 0.02465 |
| 95 | 1 | S1 | SwitchTactile3Pos | Tactile switch 3 position smd | Omron | B3U-1100P | SW3_4X2P5 | 2W0022 | Digikey | 2.95 | 2.496 |
| 96 | 1 | SW1 | Rotary Switch | Rotary Switch, Screw Driver Actuated | Nikkai | ND3FR10P | SW-ND3FR10 | 2W0021 | Digikey | 2.95 | 2.496 |
| 97 | 4 | TP17 TP18 TP19 TP20 | TP | | Keystone Electronics | 5002 | TH_TP_5002 | 2H0026 | Digikey | 0.163 | 0.079 |
| 98 | 1 | U1 | M29W160EB | Flash Memory 16Mbit (2Mx8/1Mx16) 70ns | Micron | M29W160EB70ZA6E | TFBGA48 | 1A0328 | Avnet | 0.xx | 0.xx |
| 99 | 1 | U13 | SN74AUP2G08 | Low Power Dual AND Gate | TI | SN74AUP2G08DCU | U_8_DCU | 1A0249 | Digikey | 0.11 | 0.1710 |
| 100 | 1 | U14 | AM335X_15x15 | | TI | AM3359ZCZ | am33xx_15x15 | 1A0242 | Arrow | 10.00 | 10.00 |
| 101 | 2 | U2 U3 | TLK110 | Industrial Ethernet 10/100 Mb/s PHY Transceiver | TI | TLK110PT | HTQFP_48pin | 1A0291 | Digikey | 5.01 | 2.31 |
| 102 | 1 | U4 | SN74CB3Q3306APWR | Dual FET Bus Switch | TI | SN74CB3Q3306APWR | PW8 | 1A0331 | Avnet | 0.xx | 0.xx |
| 103 | 1 | U5 | SN74LVC1G08 | Single logic AND Gate | TI | SN74LVC1G08DCK | sm-so-sc70-5 | 1A0257 | Digikey | 0.31 | 0.0786 |
| 104 | 1 | U6 | CAT24C256W | EEPROM 256Kb I2C SOIC8 | On Semiconductor | CAT24C256WI-G | soic8_208 | 1A0225 | Digikey | 1.21 | 0.36 |
| 105 | 2 | U7 U8 | SN74LVC1G32DCK | Single 2input positive OR gate | TI | SN74LVC1G32DCK | SC70-5-43M | 1A0334 | Avnet | 0.xx | 0.xx |
| 106 | 2 | U9 U11 | SN74CBTLV3257RGY | 4bit 1-4 FET Mux/Demux | TI | SN74CBTLV3257RGY | QFN4X3P5-16-39M | 1A0332 | Avnet | 0.xx | 0.xx |
| 107 | 1 | U10 | SN74LVC1G06DCK | Single inverter buffer/driver w/open drain output | TI | SN74LVC1G06DCK | DCK5 | 1A0333 | Avnet | 0.xx | 0.xx |
| 108 | 1 | U12 | CDCE913 | Programmable 1-PLL VCXO Clock Synthesizer | TI | CDCE913PWR | TSSOP5X4-14-47M | 1A0326 | Digikey | 0.xx | 0.xx |
| 109 | 1 | U15 | MT41J128M16JT-125 | DDR3 SDRAM 2Gb (128Mx16) 1.5V | Micron | MT41J128M16JT-125 | BGA14X10-96 | 1A0317 | Arrow | x.00 | 3.12 |
| 110 | 1 | U16 | ISO1050 | Isolated CAN Transceiver | TI | ISO1050DUB | so8_w_dub | 1A0214 | Digikey | 3.41 | 2.57 |
| 111 | 1 | U17 | W25Q64 | Flash Memory SPI 64Mb | Winbond | W25Q64CVSSIG | SOIC8_265 | 1A0223 | Digikey | 0.97 | 2.50 |
| 112 | 1 | U18 | FT2232HL | USBHS Dual UART/FIFO | FTDI | FT2232HL-REEL | LQFP64_10X10 | 1A0294 | Digikey | 3.7 | 3.10 |
| 113 | 1 | U19 | LM94022 | Multi-Gain Analog Temperature Sensor | TI | LM94022QBIMG/NOPB | SC70-5 | 1A0327 | Digikey | 0.xx | 0.xx |
| 114 | 1 | U20 | SN74LVC1G07 | Driver Open Drain output | TI | SN74LVC1G07DCK | DCK5 | 1A0269 | Digikey | 1.11 | 0.04 |
| 115 | 1 | U21 | TP55420D | Step down power switch converter,2A | TI | TP55420D | SOIC-8 | - | Digikey | 0.xx | 0.xx |

| | | | | | | | | | | | |
|-----|---|---------|-------------------|---|-----------|---------------------|--------------------|--------|---------|------|--------|
| 116 | 1 | U22 | TPS65910A3 | Integrated Power Management Unit for DDR3 | TI | TPS65910A3A1RSL | U_48_RSL | 1A0303 | Digikey | 1.99 | 1.11 |
| 117 | 1 | U23 | TPD4S012 | ESD 4channel USB Interface | TI | TPD4S012DRY | U_6_DRY | 1A0233 | Digikey | 0.76 | 0.12 |
| 118 | 1 | U24 | TPD6E001 | ESD Protection Array 6Chan +-15kV | TI | TPD6E001RSE | U_10_RSE | 1A0248 | Digikey | 0.42 | 0.11 |
| 119 | 1 | U25 | PCA9536DGK | I2C to IO Expander 4 bit | TI | PCA9536DGK | MSOP3X3-8-43M | 1A0329 | Avnet | 0.xx | 0.xx |
| 120 | 1 | U26 | SN74ALVCH16374DGV | 16-Bit Edge-Triggered D-TYPE Flip-Flop | TI | SN74ALVCH16374DGV | TVSOP-48 | 1A0330 | Avnet | 0.xx | 0.xx |
| 121 | 1 | U27 | TPS76650 | Low Dropout Voltage Regulator 250mA Low Q Current | TI | TPS76650D | soic_8 | 1A0284 | Digikey | 1.70 | 0.58 |
| 122 | 1 | U28 | ISO1176T | Isolated Profibus RS-485 Transceiver | TI | ISO1176TDW | u_16_dw | 1A0239 | Digikey | 1.76 | 6.7525 |
| 123 | 1 | U29 | TPS51200 | DDR Termination Regulator SinkSource | TI | TPS51200DRC | drcpso_10pin | 1A0297 | Digikey | 1.11 | 0.39 |
| 124 | 1 | U30 | TPS71718 | Low Dropout 1.8V 150mA Linear Regulator | TI | TPS71718DCK | smdsc70-5 | 1A0262 | Digikey | 1.21 | 0.7560 |
| 125 | 1 | U31 | TPIC2810 | 8bit LED Driver with I2C Interface | TI | TPIC2810D | u_16_d | 1A0282 | Digikey | 1.70 | 1.04 |
| 126 | 1 | U32 | TPS78633 | Linear Power Regulator 3.3V 1.5A | TI | TPS78633DCQ | sot223_6pin | 1A0094 | Arrow | 1.25 | 1.01 |
| 127 | 1 | U33 | 93LC56B | 2K Microwire-Compatible Serial EEPROM | Microchip | 93LC56B-I/OT | SOT23-6 | 1A0298 | Digikey | 0.22 | 0.15 |
| 128 | 1 | U34 | TPS61041 | DC to DC Boost Converter 1.8V to 6.0V Input Range | TI | TPS61041DBV | DBV5 | 1A0343 | Digikey | 0.81 | 0.51 |
| 129 | 1 | U35 | SN65HVS882 | Industrial 8digit Input Serializer | TI | SN65HVS882PWP | u_28_pwp | 1A0234 | Digikey | 2.22 | 3.00 |
| 130 | 2 | U37 U38 | SN74LV244A | Octal Line Buffer | TI | SN74LV244APWRG3 | TSSOP4X6-20 | 1A0368 | Digikey | 0.31 | 0.09 |
| 131 | 1 | Y1 | 25MHz | Crystal 25MHz | Abracon | ABM3-25.000MHz-B2-T | SM_OSC_ABM3 | 1Y0030 | Digikey | 0.90 | 0.42 |
| 132 | 1 | Y2 | 12MHz,+/-50ppm | CRYSTAL 12.000 MHZ 20PF SMD | ECS Inc | ECS-120-20-30B-TR | XTAL4_3P2X5SMD | | Digikey | | |
| 133 | 1 | Y3 | 24MHz | Crystal 24MHz 30ppm load cap 18pF | Citizen | CS325-24.000MABJ-UT | XTAL4_3P2X2P5_SM D | 1Y0039 | Digikey | 0.56 | 0.50 |
| 134 | 1 | Y4 | 32.768KHz MC-306 | Crystal 32.768KHz | Epson | MC-30632.7680k-A | MC-306 | 1Y0029 | Digikey | 0.41 | 0.338 |

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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