



**Logic Product Development**  
PN: 1007614 Rev A

# Bill of Materials

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| M5484GFEE Fire Engine (RoHS)<br>64MB DDR, 4MB boot flash | 1 - 6        |



## BOM REPORT

**Part Number** 1007614

**Part Description** ASSEMBLY, M5484GFEE, (ROHS)

**Part Revision** A

| Part Number | Revision | Qty | Ref Des  | Item Description   | Initial MFG Name  | Initial MFG Part Number |
|-------------|----------|-----|--|--|-------------------|-------------------------|
| 1007614     | A        |     |  | ASSEMBLY, PCB, M5484GFEE (LITEKITE), (ROHS), 64MB DDR, 0MB NOR FLASH, 4MB BOOT FLASH |                   |                         |
| 1001329     | A        | 70  | C4, C9, C11, C13, C15, C17, C20, C22, C23, C25, C36-C39, C49, C50, C58-C60, C63, C65-C67, C73, C91, C101, C109, C110, C113-C117, C143, C148, C153, C156, C166-C169, C171, C172, C187-C191, C197, C198, C200-C202, C204-C206, C221-C223, C228-C230, C235-C237, C239, C242, C246, C249, C252 | CAP, CERAMIC, 10000PF, 16V, 0402   | Panasonic         | ECJ-0EB1C103K           |
| 1001332     | B        | 28  | C7, C8, C10, C12, C14, C16, C27, C40, C64, C72, C108, C112, C138, C154, C157, C170, C175, C208-C211, C213-C215, C218, C219, C238, C241   | CAP, TANTALUM, 22UF, 10V, 3528   | Panasonic         | ECS-T1AX226R            |
| 1001335     | A        | 1   | U102   | IC, DIGITAL LOGIC/LATCHES, SCHMIDT TRIGGER INVERT, SINGLE, 1.65V TO 5.5V, SC-70      | Texas Instruments | SN74LVC1G14DCKR         |
| 1001336     | B        | 15  | R6, R16, R74, R135, R173, R244, R340, R341, R430, R437, R438, R472-R475  | RESISTOR, 10K OHM, 1/16W, 5%, 0402   | Dale              | CRCW0402103JT           |
| 1001337     | A        | 2   | R318, R338   | RESISTOR, 1.0K OHM, 1/16W, 5%, 0402  | Panasonic         | ERJ-2GEJ102X            |
| 1001339     | A        | 2   | R8, R9   | RESISTOR, 10.0 OHM, 1/16W, 1%, 0402  | Panasonic         | ERJ-2RKF10R0X           |
| 1001368     | A        | 18  | R1, R10-R13, R19, R52, R110, R112, R113, R172, R245, R284, R288, R370, R427, R428, R434  | RESISTOR, 0 OHM, 1/16W, 5%, 0402   | Panasonic         | ERJ-2GE0R00X            |
| 1001374     | A        | 19  | R29, R30, R34, R111, R134, R264, R271, R282, R283, R298, R308, R311, R313-R315, R468, R476-R478  | RESISTOR, 22 OHM, 1/16W, 5%, 0402  | Panasonic         | ERJ-2GEJ220X            |
| 1001601     | A        | 1   | U59  | IC, EEPROM, 3-WIRE SERIAL 2.7V, INDUSTRIAL TEMP.                                     | Atmel             | AT93C46-10TU-2.7        |



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|-------------|----------|-----|---|--|-----------------------------|---------------------------|
| 1001604     | A        | 1   | Q4  | MOSFET, N-CH, 60V, 150MA, SOT23  | Diodes Inc                  | 2N7002-7-F                |
| 1002312     | A        | 2   | U100, U101  | IC, POWER REG, 1.8V, 150MA, LDO, TSOP-5                                    | On Semiconductor            | NCP500SN18T1G             |
| 1002313     | A        | 1   | U71   | IC, HYSTERETIC SWITCHING REGULATOR, PFET BUCK CONTROLLER, SOT23-5          | National Semiconductor      | LM3475MFX NOPB            |
| 1002314     | B        | 1   | U56   | IC, DIGITAL LOGIC/LATCHES, SINGLE 2-INPUT POSITIVE AND GATE                | Texas Instruments           | SN74AHC1G08DBVRE4         |
| 1002315     | A        | 1   | U31   | IC, BUFFER, QUAD, BUS BUFFER GATE W/TRI-STATE OUTPUTS                      | Texas Instruments           | SN74LVC125APWRE4          |
| 1002318     | A        | 2   | U92, U93  | IC, BUFFER, BUS OCTAL NON-INVERTING, 20-TSSOP                              | Texas Instruments           | SN74LVC541APWR (ROHS)     |
| 1002319     | A        | 2   | U74, U76  | IC, DIGITAL LOGIC/LATCHES, EDGE TRIGGERED D TYPE F/F, TRI-STATE 48-TSSOP   | Texas Instruments           | SN74LVTH162374DGGR (ROHS) |
| 1002320     | A        | 1   | U17   | IC, DIGITAL LOGIC/LATCHES, SINGLE D TYPE FLIP FLIP WITH PRESET# AND CLEAR# | Texas Instruments           | SN74LVC2G74DCTRE4         |
| 1002329     | A        | 2   | D4, D6  | DIODE, SCHOTTKY, 30V, 3A, SMC  | On Semiconductor            | MBRS330T3G                |
| 1002377     | A        | 1   | U79   | IC, DDR TERMINATION REGULATOR, SOP-8L, INDUSTRIAL TEMP                     | Global Mixed-mode Tech Inc. | G2995P1Uf                 |
| 1002379     | A        | 12  | C118, C212, C244, C245, C248, C251, C254-C256, C258-C260                                | CAP, CERAMIC, 1UF, 10V, X7R, 0805  | AVX                         | 0805ZC105KAT2A            |
| 1002380     | A        | 1   | R431  | RESISTOR, 37.4K OHM, 1/16W, 1%, 0402                                       | Yageo America               | 9T04021A3742FBHF3         |
| 1002381     | A        | 1   | U78   | IC, POWER REG, 1.5 V, 1A, LDO, TO-252, INDUSTRIAL TEMP                     | Global Mixed-mode Tech Inc. | G1117-15T43Uf             |
| 1002382     | A        | 16  | R55, R61, R68, R69, R71, R91, R93, R375, R379, R390, R395, R400, R405, R407, R413, R422 | RESISTOR, ARRAY (4) 51 OHM, 5%, SMT, 0603                                  | Panasonic                   | EXB38V510JV               |
| 1002383     | A        | 7   | R227, R250-R252, R254, R350, R460   | RESISTOR, ARRAY (4) 4.7K OHM, 5%, SMT, 0603                                | Panasonic                   | EXB38V472JV               |
| 1002384     | A        | 2   | R451, R452  | RESISTOR, ARRAY (4) 0 OHM, 5%, SMT, 0603                                   | Panasonic                   | EXB38VR000V               |
| 1002386     | A        | 4   | R79, R124, R141, R372   | RESISTOR, ARRAY (4) 10K OHM, 5%, SMT, 0603                                 | Panasonic                   | EXB38V103JV               |
| 1002387     | A        | 4   | R83, R191, R195, R235   | RESISTOR, ARRAY (4) 15K OHM, 5%, SMT, 0603                                 | Panasonic                   | EXB38V153JV               |
| 1002388     | A        | 1   | Q6  | MOSFET, P-CH, -20V, -5.5A, SOT-223   | Fairchild                   | FDT434P                   |



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|-------------|----------|-----|---|---|----------------------|-------------------------|
| 1002391     | A        | 1   | U75   | IC, RESET/SUPERVISORY, 3-PIN MICROPROCESSOR RESET CHIP 3.08V THRESHOLD ACTIVE LOW, SOT-23 | OnSemi               | NCP803SN308T1G          |
| 1002393     | A        | 33  | C28-C31, C41-C45, C51-C55, C74, C75, C139, C140, C144, C145, C149, C150, C158-C161, C181, C199, C207, C224, C225, C231, C232          | CAP, CERAMIC, 100PF, 50V, X7R, 0402   | Panasonic            | ECJ-0EB1H101K           |
| 1002394     | B        | 29  | C32-C35, C46-C48, C56, C57, C141, C142, C146, C147, C151, C152, C162-C165, C220, C226, C227, C233, C234, C240, C243, C247, C250, C253 | CAP, CERAMIC, 1000PF, 50V, X7R, 0402  | Yageo America        | 04022R102K9B20D         |
| 1002395     | A        | 4   | C62, C68-C70  | CAP, CERAMIC, 22PF, 50V, NPO, 0402  | Yageo America        | 0402CG220J9B200         |
| 1002396     | A        | 6   | C2, C261-C265   | CAP, CERAMIC, 0.1UF, 16V, X5R, 0402   | AVX                  | 0402YD104KAT2A          |
| 1002399     | A        | 1   | L1  | INDUCTOR, 4.7UH, 4.8A, SMT  | Coilcraft            | DO3316P-472ML           |
| 1002400     | A        | 5   | FB30-FB33, FB35   | FERRITE, 60OHMS @ 100MHZ, 400MA, 3225   | Central Technologies | CTCB1210-600SF          |
| 1002401     | A        | 4   | FB1-FB3, FB5  | FERRITE BEAD, 600OHM @ 100MHZ, 200MA, 0805  | MURATA               | BLM21BD601SN1D          |
| 1002402     | B        | 1   | J11   | CONNECTOR, HEADER, MALE, 0.100IN, 4PIN, W/LOCKING-RAMP, 1X4                               | Molex                | 22-23-2041              |
| 1002403     | A        | 1   | J6  | CONNECTOR, HEADER, MALE, 0.100IN, 6PIN, 2X3   | Sullins              | PTC03DAAN               |
| 1002404     | A        | 1   | J7  | CONNECTOR, USB DEVICE MINI, RIGHT ANGLE   | Molex                | 54819-0572              |
| 1002405     | A        | 1   | J5  | CONNECTOR, CF SOCKET, 50PIN   | Aptos Technology     | CFZDF50AC20011          |
| 1002406     | A        | 1   | J10   | CONNECTOR, HEADER, MALE, 0.100IN, 26PIN, 2X13   | Molex                | 015-91-2260             |
| 1002407     | A        | 1   | Y2  | CRYSTAL, 25.0000MHZ, 30PPM, I-TEMP, SMT   | Abracon              | ABM7-25.000MHZ-D-4-T    |
| 1002408     | A        | 1   | U9  | OSCILLATOR, 50.0000MHZ, 3.3V, 100PPM, I-TEMP, SMT   | Abracon              | ASV-50.000MHZ-L-T       |
| 1002411     | A        | 1   | Y5  | CRYSTAL, 12.0000MHZ, 30PPM, I-TEMP, SMT   | Abracon              | ABM7-12.000MHZ-D-4-T    |
| 1002413     | A        | 1   | Q1  | IC, DIGITAL LOGIC/LATCHES, INVERTER, ULTRAFast, 3.3V, UNBUFFERED                          | Texas Instruments    | SN74AHC1G04DBVR         |
| 1002414     | A        | 1   | U55   | IC, DIGITAL LOGIC/LATCHES, FLIP-FLOP, DUAL D-TYPE, 14TSSOP                                | PHILIPS              | 74LVC74APW              |
| 1002422     | A        | 2   | U5, U6  | IC, DDR SDRAM, 256MBIT, INDUSTRIAL TEMP   | Micron               | MT46V16M16P-75 IT:F     |



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|-------------|----------|-----|--|---|------------------|-------------------------|
| 1002423     | A        | 1   | U10  | IC, ZERO DELAY BUFFER, 3.3V, INTERNAL FEEDBACK, 8-SOIC, INDUSTRIAL TEMP | Cypress          | CY2305CSXI-1            |
| 1002428     | A        | 22  | R27, R31-R33, R35-R43, R286, R289-R291, R319, R321-R324  | RESISTOR, ARRAY (4) 22 OHM, 5%, SMT                                     | Panasonic        | EXB-28V220JX            |
| 1002429     | A        | 48  | JP0+, JP1+, JP2+, JP3-, JP4+, JP5-, JP6-, JP8+, JP9+, JP10-, JP11-, JP12-, JP13-, JP14-, JP15+, JP16-, JP17-, R14, R15, R17, R53, R54, R56, R98, R100, R102, R104, R224, R225, R261, R272-R274, R287, R316, R317, R330, R332, R333, R337, R348, R349, R351, R359, R457, R458, R464, R466 | RESISTOR, 4.75K OHM, 1/16W, 1%, 0402                                    | Panasonic        | ERJ-2RKF4751X           |
| 1002431     | A        | 16  | R101, R187, R189, R201, R203, R205, R207, R209, R211, R213, R215, R217, R222, R233, R469, R470   | RESISTOR, 15K OHM, 1/16W, 5%, 0402                                      | Yageo America    | 9C04021A1502JLHF3       |
| 1002432     | A        | 1   | R465   | RESISTOR, 1.3K OHM, 1/16W, 0.1%, 0603                                   | Panasonic        | ERA-3YEB132V            |
| 1002434     | A        | 1   | D5   | DIODE, ARRAY TVS, LOW CAPACITANCE                                       | SEMTECH          | SRV05-4.TCT             |
| 1002435     | A        | 18  | R59, R63, R67, R70, R72, R378, R382-R387, R393, R394, R401, R402, R418, R423   | RESISTOR, 49.9 OHM, 1/16W, .5%, 0402                                    | Susumu           | RR0510R-49R9-D          |
| 1002436     | A        | 1   | R432   | RESISTOR, 12.0K OHM, 1/16W, 0.5%, 0402                                  | Susumu           | RR0510P-123-D           |
| 1002551     | A        | 1   | R73  | RESISTOR, 9.1K OHM, 1/16W, 1%, 0402                                     | Yageo America    | RC0402FR-079K1L         |
| 1002696     | A        | 4   | J1-J4  | CONNECTOR, HEADER, MALE, 0.6MM, 100PIN, 2X50                            | Hirose           | FX8-100P-SV(93)         |
| 1003067     | B        | 0   |  | FUNCTIONAL TEST PROCEDURE, MOTOROLA COLDFIRE, WITH MODULAR TEST CLIENT  |                  |                         |
| 1003329     | A        | 1   | U80  | IC, TRANSCEIVER, 10/100 BASETX, DUAL PORT ETHERNET PHY INDUSTRIAL TEMP  | Broadcom         | BCM5222KQMG             |
| 1004421     | G        | 0   |  | SCHEMATIC, MCF54XX ETX ROHS MODULE                                      |                  |                         |
| 1005099     | A        | 0   |  | SOFTWARE, XML, COLDFIRE, FCT CLIENT TEST SCRIPT MCF5484 MGFE, ALL BYTES |                  |                         |
| 1006582     | A        | 1   | U81  | IC, POWER REG, 2.5V, 1.5A, LDO, 3 LEAD TO-252 DPAK                      | Fairchild        | FAN1950D25X             |



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|-------------|----------|-----|---------|--|------------------|-------------------------|
| 1007114     | B        | 1   | PCB1    | PCB, M547X/M548X ETX MODULE, R320 REPLACED   |                  |                         |
| 1007516     | A        | 1   | U2      | IC, PROCESSOR, COLDIFIRE, MCF5484 SILICON REVISION 1.3   | Freescale        | MCF5484CVR200           |
| 1007763     | A        | 0   |         | ASSEMBLY DRAWING, CARD ENGINE, M548X/M547X ETX MODULE  |                  |                         |
| 1000196     | A        | 0   |         | LABEL, MAC ADDRESS IDENTIFICATION  |                  |                         |
| 1006494     | A        | 0   |         | LABEL, PART NUMBER, REVISION, SERIAL NUMBER, BAR CODE, ROHS                                    |                  |                         |
| 1002426     | A        | 1   | U12     | IC, CPLD, 64 MACROCELL, 100-PIN VQFP, INDUSTRIAL TEMP.   | Xilinx           | XC2C64A-7VQG100I        |
| 20500089    | B        | 0   |         | SOFTWARE, CPLD CODE, MCF5475/85 FIRE ENGINES. 64 MACROCELL                                     |                  |                         |
| 1004409     | A        | 1   | U13     | IC, FLASH, 3-VOLT ADVANCED+ BOOT BLOCK, 32MBIT, TSOP   | INTEL            | JS28F320C3BD70          |
| 1002928     | A        | 0   |         | SOFTWARE, RAW, COLDIFIRE, FCT CLIENT V1.0.5 & DBUG V4A.1A.1D & LOLO V2.0.2, MCF5484, ALL BYTES |                  |                         |