

# Bill of Materials

Title: Bill of Materials for Project [AVR\_RCS.PrjPcb] (No PCB Document Selected)

Project: AVR RCS

Company: aKaReZa

Variant: None

Revision: 1.0



| Inflow  | LibRef                   | Footprint               | Value      | Rating  | Package  | Type         | Description                         | Comment    | Quantity |
|---------|--------------------------|-------------------------|------------|---------|----------|--------------|-------------------------------------|------------|----------|
| inflow? | Cap_Multi_SMD_100nF_0805 | CAP 0805/2012           | 100n       | 50V     | 0805     | MultiLayer   | Bipolar ceramic capacitor SMD       | 100n       | 8        |
| inflow? | Cap_Multi_SMD_100nF_1206 | CAP 1206/3216           | 100n       | 50V     | 1206     | MultiLayer   | Bipolar ceramic capacitor SMD       | 100n       | 7        |
| inflow? | Cap_Multi_SMD_0805       | CAP 0805/2012           | 22p        | Rating? | 0805     | MultiLayer   | Bipolar ceramic capacitor SMD       | 22p        | 2        |
| inflow? | Cap_Multi_SMD_0805       | CAP 0805/2012           | 33p        | Rating? | 0805     | MultiLayer   | Bipolar ceramic capacitor SMD       | 33p        | 4        |
| inflow? | Cap_Multi_SMD_0805       | CAP 0805/2012           | 68p        | Rating? | 0805     | MultiLayer   | Bipolar ceramic capacitor SMD       | 68p        | 2        |
| inflow? | Cap_Multi_SMD_1206       | CAP 1206/3216           | 10p        | 50V     | 1206     | MultiLayer   | Bipolar ceramic capacitor SMD       | 10p        | 1        |
| inflow? | Cap_Multi_SMD_1206       | CAP 1206/3216           | 33p        | 50V     | 1206     | MultiLayer   | Bipolar ceramic capacitor SMD       | 33p        | 1        |
| inflow? | Cap_Tantalum             | SMT_C_Tantalum_A        | 1u         | 6.3V    | SMD-A    | Tantalum     | Tantalum Capacitor,TAJ Series-SMD   | 1u         | 2        |
| inflow? | Cap_Tantalum             | SMT_C_Tantalum_A        | 10u        | 6.3v    | Package? | Tantalum     | Tantalum Capacitor,TAJ Series-SMD   | 10u        | 3        |
| inflow? | Cap_Tantalum             | SMT_C_Tantalum_B        | 10u        | 25v     | Package? | Tantalum     | Tantalum Capacitor,TAJ Series-SMD   | 10u        | 2        |
| inflow? | Cap_Tantalum             | SMT_C_Tantalum_A        | 22u        | 6.3v    | Package? | Tantalum     | Tantalum Capacitor,TAJ Series-SMD   | 22u        | 1        |
| inflow? | Cap_Tantalum             | SMT_C_Tantalum_B        | 47u        | 6.3v    | Package? | Tantalum     | Tantalum Capacitor,TAJ Series-SMD   | 47u        | 2        |
| inflow? | Cap_Tantalum             | SMT_C_Tantalum_C        | 100u       | 6.3V    | SMD-C    | Tantalum     | Tantalum Capacitor,TAJ Series-SMD   | 100u       | 1        |
| 7152    | Con_MPH_3x1_V_THT_2.54   | HDR_THT_3M_2.54mm       | 3          | Rating? | Package? | Type?        | Header, single row, 3 pin           | 3          | 1        |
| inflow? | Con_Power_2              | Phoenix_2PIN_RA_P5.08mm | 2' Pin     | Rating? | Package? | Type?        | Power Connector 2' Pin              | 2' Pin     | 2        |
| inflow? | Con_Power_3              | Phoenix_3PIN_RA_P5.08mm | Value?     | 3b      | Dip      | Type?        | Power Connector 3' Pin              | Value?     | 1        |
| 6127    | Con_Power_Jack           | Power Jack BIG          | Female     | Rating? | Package? | Type?        | Power Jack                          | Female     | 1        |
| inflow? | Con_Prog_MKII_ISP        | IDC_2X3                 | 3x2        | Rating? | Package? | Type?        | 6 Pin Standard ISP Header For MKII  | 3x2        | 1        |
| inflow? | Con_RF_U.FL              | IPEX-3x3mm              | U.FL       | Rating? | SMD      | RF           | U.FL                                | U.FL       | 1        |
| inflow? | Con_Socket_SimCard_1     | GCT_SIM8051_Plastik     | 6' Pin     | Rating? | SMD      | Nano         | Nano SimCard Holder 6P              | 6' Pin     | 1        |
| 1506    | IC_Driver_ULN2003        | SO16_M                  | ULN2003    | Rating? | SO-16    | Driver       | Seven darlington array drivers      | ULN2003    | 1        |
| inflow? | IC_MCU_ATmega328P_SMD    | ATMEGA328P              | ATmega328P | Rating? | Package? | Type?        | 8-Bit AVR Microcontroller with 32K  | ATmega328P | 1        |
| 5217    | IC_Reg_AMS1117_3.3       | SOT223_M                | 3.3V       | 1A      | SOT223   | LDO          | 1'A Positive voltage regulator      | 3.3V       | 1        |
| inflow? | IC_Reg_TP54302           | TP54302                 | Value?     | S       | SOT-23-6 | Switching    | 3'A Synchronous Step-Down Converter | Value?     | 2        |
| inflow? | Ind_SMD                  | L_7                     | 10u        | 3.8A    | Package? | Type?        | Inductor                            | 10u        | 2        |
| inflow? | ModSen_AHT20             | AHT20                   | AHT20      | Rating? | Dip      | Air T&H      | Air Temperature and Humidity Sensor | AHT20      | 1        |
| inflow? | ModSen_Com_M66           | m66                     | M66        | Rating? | Dip      | GSM-GPRS     | Quectel GSM/GPRS Module             | M66        | 1        |
| 8251    | ModSen_Com_RXB22_433     | RF_ETRXB                | RXB22      | 433M    | Dip      | Learning     | JMR RXB22 433MHz ASK                | RXB22      | 1        |
| 8116    | ModSen_LCD_CH_16x2_Box   | BOX-HDR-2x6-2.54mm-S    | 16x2       | Rating? | Dip      | Alphanumeric | Alphanumeric LCD character          | 16x2       | 1        |
| inflow? | Other_Elec_Fuse_SMD      | 1206_F                  | 0.5A       | Rating? | 1206     | Fast         | Short circiut protection            | 0.5A       | 1        |
| inflow? | Other_Elec_Fuse_SMD      | 1206_F                  | 1A         | Rating? | 1206     | Fast         | Short circiut protection            | 1A         | 1        |
| inflow? | Other_Elec_Fuse_SMD      | 1206_F                  | 2A         | Rating? | 1206     | Fast         | Short circiut protection            | 2A         | 1        |
| inflow? | Other_Elec_Fuse_SMD      | 1206_F                  | 3A         | Rating? | 1206     | Fast         | Short circiut protection            | 3A         | 1        |
| inflow? | Other_Elec_Fuse_THT      | FUSE_Blx_20x5           | 5A         | Rating? | Package? | Type?        | Short circiut protection            | 5A         | 1        |
| inflow? | Other_Elec_Xtal_SMD      | Crystal SMD             | 12M        | Rating? | SMD      | Quartz       | Crystal Oscillator                  | 12M        | 1        |
| 8243    | Other_Mech_Screw         | SCREW-M3                | M3         | Rating? | Package? | Screw        | Board Screw With Spacer             | M3         | 3        |
| inflow? | Res_Multi                | Multi turn 01           | 10K        | Rating? | Package? | Type?        | Multi Turn                          | 10K        | 1        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 1K         | 0.125W  | 0805     | 10%          | Resistor                            | 1K         | 3        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 1.8K       | 0.125W  | 0805     | 10%          | Resistor                            | 1.8K       | 5        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 4.7K       | 0.125W  | 0805     | 10%          | Resistor                            | 4.7K       | 4        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 5.6K       | 0.125W  | 0805     | 10%          | Resistor                            | 5.6K       | 1        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 10K        | 0.125W  | 0805     | 10%          | Resistor                            | 10K        | 2        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 13.7K      | 0.125W  | 0805     | 1%           | Resistor                            | 13.7K      | 1        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 17.8K      | 0.125W  | 0805     | 1%           | Resistor                            | 17.8K      | 1        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 22b        | 0.125W  | 0805     | 10%          | Resistor                            | 22b        | 3        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 47K        | 0.125W  | 0805     | 10%          | Resistor                            | 47K        | 2        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 49.9b      | 0.125W  | 0805     | 1%           | Resistor                            | 49.9b      | 2        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 100b       | 0.125W  | 0805     | 10%          | Resistor                            | 100b       | 2        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 100K       | 0.125W  | 0805     | 1%           | Resistor                            | 100K       | 2        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 220b       | 0.125W  | 0805     | 10%          | Resistor                            | 220b       | 1        |
| inflow? | Res_SMD_0805             | RES 0805 (2012X06L)     | 680b       | 0.125W  | 0805     | 10%          | Resistor                            | 680b       | 1        |
| inflow? | Semi_BJT_BC817           | SOT23_N                 | NPN        | Rating? | Package? | Type?        | NPN General purpose Transistor      | NPN        | 2        |
| inflow? | Semi_Diod_Sch_1N5819_SMD | 430X270D                | 1N5819     | Rating? | SMA      | Schottky     | Schottky Rectifiers                 | 1N5819     | 3        |
| inflow? | Semi_Diod_TV5_SMF05      | SC70-5_N                | SMF-05     | Rating? | SC70-5   | TVS          | TVS Diode Array                     | SMF-05     | 1        |
| inflow? | Semi_Diod_Zener_SMD      | SOD80_LL-34             | 5.1V       | 0.5W    | SOD-80   | Zener        | Zener Diode                         | 5.1V       | 1        |
| inflow? | Semi_LED_SMD             | LED 0805/2012 BLUE      | Blue       | Rating? | Package? | LED          | LED                                 | Blue       | 2        |
| inflow? | Semi_LED_SMD             | LED 0805/2012 GREEN     | Green      | Rating? | Package? | LED          | LED                                 | Green      | 4        |
| inflow? | Semi_LED_SMD             | LED 0805/2012 RED       | Red        | Rating? | Package? | LED          | LED                                 | Red        | 1        |
| inflow? | Semi_LED_SMD             | LED 0805/2012 YELLOW    | Yellow     | Rating? | Package? | LED          | LED                                 | Yellow     | 1        |
| 8260    | SW_PushButton_2_SMD      | SW_PB_SMD_2PIN_SPST_6X  | PB         | 2b      | SMD      | Vertical     | SMT Tactile Switch                  | PB         | 2        |
| inflow? | SW_Relay_SPDT            | Relay 18.85x15.35x15.70 | 12V        | Rating? | Dip      | SPDT         | SPDT Relay                          | 12V        | 3        |

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Approved

Notes

*[Signature]*

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