Component list Bill of Materials Print For Variant [Default_assembly] of Project [ATMEGA256RFR2_Xplained_Pro.PrjPCB] (No PCB Document Selected) Source Data From: ATMEGA256RFR2_Xplained_Pro.PrjPCB FCC ID Project: ATMEGA256RFR2_Xplained_Pro.PrjPCB Default_assembly VW4A091784 Report Date: 2/25/2013 12:40:31 PM 2/25/2013 12:40:28 PM Print Date Manufacture MPN Johanson Technology 2450RM15A0015E Benn 2450BM15A0015E Filtered Balun to match AT86RF232/233 (35288) C100 4 7uF C1608X5R1A475K Ceramic canacitor SMD 0603 X5R 10V 10% (de310 TR3A106K016C1700 C101 100 vishay SMD tantalum capacitor, ESR = 1.7, 3216-18 (EIA) 1206, C300 C302 C401 C402 22n Ceramic canacitor, SMD 0402, NP0, 50V, ±/-59 4.7n Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287) C301 C0402C105K9PAC C303, C306 Kemet Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942 C304, C308, C309, C310, C311, C0402C104K4RACTU Ceramic capacitor, SMD 0402, X7R, 16V, +/-10% 100n Kemet CM05CG120J50AH Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% (de1981 C305, C307 12pF Kvocera-elco C403 Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% 10p C406, C410, C415, C416 Kemet Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-20% 1 nF C0G C407, C408, C409 GRM1555C1H102JA01D Ceramic capacitor, SMD 0402, C0G, 50V, +/-5% Murata Johanson Technology Ceramic Capacitor, SMD 0201, 25V, NP0, 22P D301, D402 EL17-21UYC/A2 17-21UYC/S530-A3/TR8 LED, Yellow, Wave length=591nm, SMD 0805, ±70° LED, Green, Wave length=575nm, SMD 0805, ±70 D404 PRTR5V0LI2X Philips PRTR5\/0112X Double rail-to-rail USB ESD protection diode DOC1 Δ09-1784 PCRΔ File ATMEL ATmega256RFR2 Xplained PRO PCBA document 18 E1, E2, E3, E4 S I-5076 3M S I-5076 2.8mm adhesive feet.diam 8.0mm Xnlained PRO MCU board Xplained PRO MCU board Jupiter Test Fixture FIXTURE1 ESCATEC Xplained PRO MCU board Jupiter Test Fixture 20 FW1 EDBG secured firmware EDBG secured firmware Pin header, 2x2, Right Angle, 2.54mm, THT, Pin In Paste P101-2*02RGF-139-ND P101-2*02RGE-130-ND Pro-data International Com 2213R-2G 22 Pin header 1x2 right angle 1x2 pin header, right angle, 2,54 mm pitch, through-hole P101-2*10RGF-139-ND J200. J201. J202 P101-2*10RGF-139-ND Pin header, 2x10, Right Angle, 2,54mm, THM, Pin In Paste 23 HMTSW-110-23-F-D-237 SAMTEC HMTSW-110-23-F-D-237 24 J203, J204 2x10 pin header, 2.54mm pitch, Pin-in-Paste THM Micro USB AB Connector 10104111-0001LF 10104111-0001LF J401 26 J600 19-46-1-TGG Multicomp 19-46-1-TGG SMA PCB mounted connector 500hm (de19205) SNT-100-BK-G SAMTEC SNT-100-BK-G JS100 Jumper cap for 2.54mm pinheade 28 L400 Coilcraft 0603USB-142ML USB common-mode filter in 0603 BLM18PG471SN1 SMD RF inductor 0603. Z=470Ohm (@100MHz), Max R(dc)=0.65Ohm, Max current=1A bel PCBA with MAC64 and ACT Logimark AS 505462 Label for use on wireless PCBA that needs 64 bit MAC and FCC ID PCB1 ATMEGA256RFR2 XPRO PCB, 4 layer, 60mm x 100 mi Q100, Q101, Q103 IRI MI 6402PRF International Rectifier IRLML6402PBF P-ch. MOSFET. -30V, -3.7A continuous,RDS(ON)=0.05Ohm@VGS=-4,5V, RDS(ON)=0.08Ohm@VGS=-2.5V 2N7002 214 N-Channel MOSFET, 60V, 0,300A continuous, 1,2A Peak, RDS(ON) = 3,8Ohm@VGS=4,5V, VGS(th 0400 2N7002DW Fairchild 2N7002DW Dual N-Channel MOSFET, 60V, 115mA cont.RDS(ON) < 7.5 Ohm @50mA@5V, SOT-363 R101, R104, R106, R410, R412 35 1M Thick film resistor, SMD 0402, 1/16W 36 R102 30k Thick film resistor, SMD 0402, 1/16W, 1% R103 18k Thick film register SMD 0402 1/16W 190 Thick film register SMD 0402 1/16W 1% 38 R107 R424 UR R108 R109 47k Thick film register SMD 0402 1/16W 1% R300, R301, R303, R500, R501, Thick film resistor, SMD 0402, 1/16W, 1% 40 100k R302, R409, R411, R413, R415 330R Thick film resistor, SMD 0402, 1/16W, 1% R305, R306, R420, R421 Thick film resistor, SMD 0402, 1/16W, 1% 42 39R R308, R309, R310, R311 Thick film resistor, SMD 0402, 1/16W, 1% 10k R404, R405, R406, R407, R408 Thick film resistor, SMD 0402, 1/16W, 1% 44 6.81k Thick film resistor, SMD 0402, 1/16W, 1% R502, R503 Thick film resistor, SMD 0402, 1/16W, 1% ROHM MCR006YZPJ000 Thick film resistor, SMD 0201, 1/20W, 5% SW300, SW301 SKRAAKE010 ALPS SKRAAKE010 6.2x6.2 mm SMD tact switch, same as A08-0091 but less force is neede TEST ga256RFR2 Xt ATMEL 500mA LDO, low noise, SOT23-5 package 50 U100 SPX3819M5-L/TR Exar SPX3819M5-L/TR ΔTMFI ATMEGA256RER27 AVR Microcontroller with Low Power 2.4GHz Transceiver for IEEE 802.15.4 (de35289) 52 U400 AT32UC3A4256J-C1UR ATMEL ΔT32HC3Δ4256 LC1HR AVR 32-bit RISC MCII SINGLE DIGITAL TEMPERATURE SENSOR W/ SERIAL FERROM LIDENS 53 11500 AT30TSF758 ΔTMFI AT30TSE758,MAR,T SKYWORKS SOLUTIONS PHEMT SPDT Analog SWITCH, 0.1-3 GHz 54 LIGOO Δ\$222-02I F 45222-02I F 55 32 768kHz 32 768kHz KY-327NHT 3 2 v 1 5 mm SMD 20nnm (do19774) XC301 16 0MHz GEVER ELECTRONIC 12 88785 3 2X2 5mm: 10/15/5nnm: 9nF: 800hm (de33221) 56 FQ5032B-12-C-C-C-200-1 Fox FQ5032B 12.0MHz SMD crystal 738B-12 12.0MHz Fox Electronics 58 C404 4.7n Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% Johanson Technology 250R05L220JV4T Ceramic Capacitor, SMD 0201, 25V, NP0, 22PF C600, C60 C605, C606 60 Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% 22p PIN HEADER 1x5 THM SAMTEC TSW-105-26-L-S 1x5 pin header, 2.54 mm pitch, THM PIN HEADER 1x6 PIP 62 J323 Freber CD0750141X6T&R 1x6 pin header, 2.54mm pitch, THM Pin-In-Paste 63 Thick film resistor, SMD 0402, 1/16W, 1% 121 Approved Notes