



G. De Luca

| | | |
|--|-------------------------------|-----------|
| Title | | |
| ATMEGA & FPGA CYCLONE I - Data acquisition board | | |
| Size | Number | Revision |
| A3 | | |
| Date: | 21/06/2011 | Sheet of |
| File: | C:\0_Miel_\at128_ep1c6.SchDoc | Drawn By: |

| Comment | Description | Designator | Footprint | LibRef | Quantity |
|---------------------|--|--|------------|---------------------|----------|
| Cap Semi | Capacitor (Semiconductor SIM Model) | C1, C2, C3, C4, C8, C10 C11 | C1206 | Cap Semi | 7 |
| Cap Elettro2 | Condensatore Elettrolitico | C5, C6, C9 | CAP_EL_1 | Cap Elettro2 | 3 |
| Cap | Capacitor | C7 | C1206 | Cap | 1 |
| JTAG | Connettore JTAG | JTAG1 | IDC10 | JTAG | 1 |
| Header 20X2 | Header, 20-Pin, Dual row | P1, P2 | MY_2X20 | Header 20X2 | 2 |
| Header 5X2 | Header, 5-Pin, Dual row | P3 | IDC10 | Header 5X2 | 1 |
| Header 2 | Header, 2-Pin | P4 | HDR1X2 | Header 2 | 1 |
| ISP10PIN | 10 Pin Bascom Sample Programming | P5 | IDC10 | ISP10PIN | 1 |
| Header 3 | Header, 3-Pin | P6 | HDR1X3 | Header 3 | 1 |
| _RES 10K | Resistenza 1/4W passo 10mm | R1 | 3216[1206] | _RES 10K | 1 |
| Res Semi | Semiconductor Resistor | R2, R3, R4, R5, R6, R7, R8, R9, R10 | 3216[1206] | Res Semi | 9 |
| RETE_RESISTIVA_SIL9 | | R11 | SIP10 | RETE_RESISTIVA_SIL9 | 1 |
| ATMEGA128 | 8-bit AVR microcontroller | U1 | 64A_M | ATMEGA128 | 1 |
| EP1C6T144C8 | Cyclone Family, 1.5V FPGA, 98 I/O Pins, 2 x PLLs, Commercial Grade Speed Grade 8, Pb-Free | U2 | TQFP144_N | EP1C6T144C8 | 1 |
| EP1C6T144C8_1 | Cyclone Family, 1.5V FPGA, 98 I/O Pins, 2 x PLLs, Commercial Grade Speed Grade 8, Pb-Free | U2 | TQFP144_M | EP1C6T144C8_1 | 1 |
| sram AS6C4008_B | 512Kx8 bit Low Power CMOS Static RAM | U3 | SOP32 | sram AS6C4008_B | 1 |
| LMS1585-3.3 | 5A and 3A Low Dropout Fast Response Regulator | U4 | TO-263 | LMS1585 | 1 |
| EPCS4SI8 | EPCS4 Series, In-system programmable 3.3V serial configuration device, 8-Pin SOIC, 4-Megabit, Industrial Grade | U5 | SOIC8_N | EPCS4SI8 | 1 |
| TPS76801 | Micropower Low-Dropout (LDO) Voltage Regulator | U6 | SOIC8 | TPS76801 | 1 |
| XTAL_CSX750 | Programmable Oscillator | XTAL1 | CSX750P | XTAL_CSX750 | 1 |
| XTAL | Crystal Oscillator | Y1 | My_Crystal | XTAL | 1 |