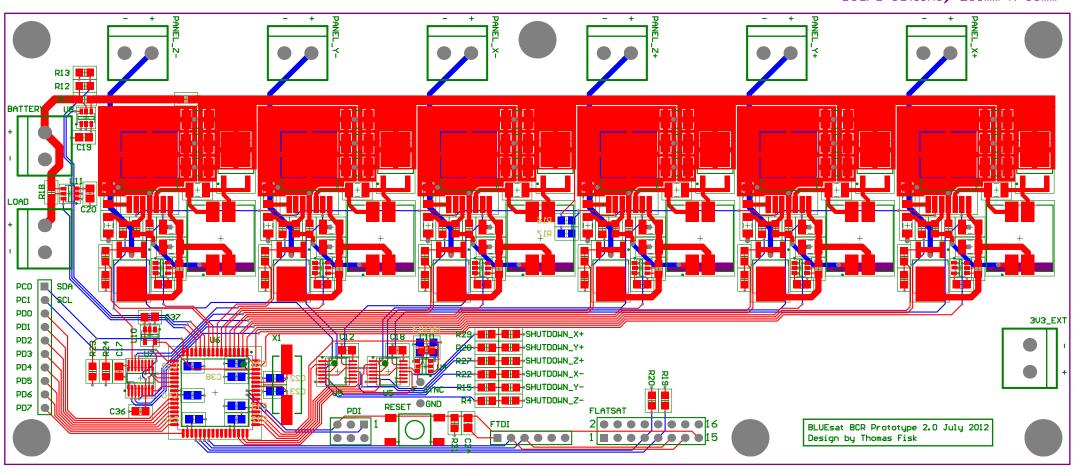


Board Outline, $200 \text{mm} \times 85 \text{mm}$



8V0_RX2 LED	3V3_EX1, BATTENY, LOAD CI_AX, CI_AY, CI_Y+, CI_Y-, CI_Z+, CI_Y-, C2_X+, C2_X-, C2_Y+, C2_Y-, C2_X+, C2_Y-, C3_Y-, C3_X-, C3_Y-, C3_Y-, C3_Z-, C3_Z-, C3_X-, C3_Z-, C3_Z-, C4_X-, C4_Z-, C4_Z-, C10, C12, C17, C18, C19, C20, C22, C23, C24_C26, C36, C37, C38, C39, C40, C41, C42, C43 (S_X+, C6_X+, C6_X+, C6_Z-, C4_Z-, C4, C4_Z-, C4_Z	SCREW2 CAPC3225M	Header 2	3
Cap Capacitor Cap Capacitor Cap Capacitor Cap Capacitor MBRD340G Schottky Rectifier Res2 Resistor Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DR0125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Header 3X2 Header, 3-Pin, Du Res1 Resistor Resistor Resistor Resistor WAR_TX1 LED WVAR_TX1 LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP Cuadrupie 2-Input SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 23MHz, 64kB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial Capacitor ATxmega64A3-AU 40°C to 85°C), Pb	C1 Y, C1 Z+, C1 Z-, C2 X+, C2 X+, C2 Y+, C2 Y+, C2 Z+, C2 Y+, C3 Y+, C3 Z+, C3 Z+, C3 X+, C3 Z+, C3 Z+, C4 Y+, C4 Z+, C4 Z-, C10, C12, C17, C18, C19, C20, C22, C23, C24, C26, C36, C37, C38, C39, C40, C41, C42, C43	CAPC3225M	Сар	18
Cap Capacitor Cap Capacitor MBRD340G Schottky Rectifier Res2 Resistor Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DRC125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Header 3X2 Header, 3-Pin, Du Resistor Resistor Sw-PB Switch Typical INFRARE LED VVAR_TX1 LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP Guadrupie 2-Input SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 32MHz, 6446 + 4 Flash, 2K6 EEPR 4K8 SRAM, 64-pi TOFP, Industrial CATxmega64A3-AU ATxmega64A3-AU	C4_Y-, C4_Z+, C4_Z-, C10, C12, C17, C18, C19, C20, C22, C23, C24, C26, C36, C37, C38, C39, C40, C41, C42, C43			1
Cap Capacitor Cap Capacitor MBRD340G Schottky Rectifier Res2 Resistor Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DRC125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Header 3X2 Header, 3-Pin, Du Resistor Resistor Sw-PB Switch Typical INFRARE LED VVAR_TX1 LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP Guadrupie 2-Input SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 32MHz, 6446 + 4 Flash, 2K6 EEPR 4K8 SRAM, 64-pi TOFP, Industrial CATxmega64A3-AU ATxmega64A3-AU	· ·			
Cap Capacitor MBRD340G Schottky Rectifier Res2 Resistor Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DRQ125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Resistor SW-PB Switch Typical INFRARE LED VVAR_TX1 Header, 10-Pin LT1513-2 LTC6899MP SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial Corp. Indus	C5_Y-, C5_Z+, C5_Z-,	CAPC2012M	Сар	24
MBRD340G Schottky Rectifier Res2 Resistor Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DRQ125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Resistor SW-PB Switch Typical INFRARE LED VVAR_TX1 LED VVAR_TX1 Header, 10-Pin LT1513-2 LTC68990MP SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial Core 10°C 185°C), PCP, Industrial Core 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C	C8_X+, C8_X-, C8_Y+, C8_Y-, C8_Z+, C8_Z-	CAPC3216M	Сар	12
Res2 Resistor Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DRQ125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du User 3X2 Typical INFRARE LED VVAR_TX1 LED VVAR_TX1 LED UVAR_TX1 LED SN74HC02PWLE Positive-NOR Gat Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial CATXMB SRAM, 64-pi TOFP, INDUSTRIA	C6 Y, C6 Z+, C6 Z-, C7 X+, C7 X-, C7 Y+, C7 Y-, C7 Z+, C7 Z-, C13 X+, C13 X-, C13 Z+, C13 Z-, C13 Z+, C13 Z-	CAPC4532M	Сар	18
Header 8X2 Header, 8-Pin, Du Header 6 Header, 6-Pin DRQ125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Resistor Header 3X2 Header, 3-Pin, Du Resistor Resistor Resistor SW-PB Switch Typical INFRARE LED VVAR_TX1 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial C ATxmega64A3-AU ATxmega64A3-AU Header, 8-Pin, Du Resistor SW-PB Switch Typical INFRARE LED VVAR_TX1 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE ATxmega64A3-AU Header, 8-Pin, Du Header, 8-Pin, Du Header, 8-Pin, Du Header, 3-Pin, Du VIA Typical INFRARE LED VVAR_TX1 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE ATxmega64A3-AU Header, 8-Pin, Du Header, 8-Pin, Du Header, 3-Pin, Du VIA Typical INFRARE LED VVAR_TX1 LED Typical INFRARE LED LTC6990MP SN74HC02PWLE ATxmega64A3-AU Header, 8-Pin, Du Header, 8-Pin, Du Header, 3-Pin, Du VIA Typical INFRARE LED LTC6990MP Uladrupis 2-Inpui ATxmega64A3-AU Header, 10-Pin Header, 10-Pin LT1513-2 LTC6990MP Uladrupis 2-Inpui ATXmega64A3-AU Header, 8-Pin, Du Header, 10-Pin LTC6990MP Uladrupis 2-Inpui ATXmega64A3-AU Header, 8-Pin, Du Header, 10-Pin LTC6990MP Uladrupis 2-Inpui ATXmega64A3-AU Header, 10-Pin Header, 10-Pin LTC6990MP Uladrupis 2-Inpui ATXMega64A3-AU H	D1_X+, D1_X-, D1_Y+, D1_Y-, D1_Z+, D1_Z-, D2_X+, D2_X-, D2_Y+, D2_Y-, D2_Z+, D2_Z-	TO229P990X238-3N	Diode 11DQ03	12
Header 6 Header, 6-Pin DRQ125 Dual Inductor Solar Panel Connector Header 3X2 Header, 3-Pin, Du Rest Resistor 8005 Resistor Resistor SW-PB Switch Typical INFRARE LED VVAR_TX1 LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE Positive-NOR Gat Microcontroller, 1 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial CAT ATxmega64A3-AU ATxmega64A3-AU	FB1	RESC2012M	Res2	1
Res1 Resistor 80805 Resistor Resistor 80005 Resistor Resistor 8000 Resistor Resistor 8000 Resistor Resistor 8000 Resistor Resistor 1 Typical INFRARE LED	alrow FLATSAT	HDR2X8	Header 8X2	1
Res1 Resistor Res1 Resistor 0805 Resistor Resistor SW-PB Switch Typical INFRARE LED Typi	FTDI	HDR1X6	Header 6	1
Res1 Resistor 0805 Resistor Resistor 0805 Resistor Resistor 0805 Resistor Resistor When Switch Typical INFRARE LED Typical INFRARE LED Typical INFRARE LED UvAR_TX1 LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE Positive-NOR Gat Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial Garden ATxmega64A3-AU ATxmega64A3-AU	L1_X+, L1_X-, L1_Y+, L1_Y-, L1_Z+, L1_Z- PAINEL_X+, PAINEL_X-,	DRQ125	DRQ125 Dual Inductor	6
Res1 Resistor 0805 Resistor Resistor SW-PB Switch 8V0_RX2 Typical INFRARE LED VVAR_TX1 LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP Uuadrupis 2-Input SN74HC02PWLE Positive-NOR Gat Microcontroller, 1, 32MHz, 64/6 + 4 Flash, 2K6 EEPR 4KB SRAM, 64-pi TOFP, Industrial 6 4Txmega64A3-AU 40°C to 85°C), Pb	PANEL_Y+, PANEL_Y-, PANEL_Z+, PANEL_Z-		Solar Panel Connector	6
0805 Resistor Resistor SW-PB Switch 8V0_RX2 LED Typical INFRARE LED Typical INFRARE LED Typical INFRARE LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE Positive-NOR Gat 4/16-bit AVR XMI Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial 6 ATxmega64A3-AU 40°C to 85°C), Pb	al row PDI	HDR2X3	Header 3X2	1
0805 Resistor Resistor SW-PB Switch 8V0_RX2 LED Typical INFRARE LED Typical INFRARE LED Typical INFRARE LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE Positive-NOR Gat 4/16-bit AVR XMI Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial 6 ATxmega64A3-AU 40°C to 85°C), Pb	R3, X+, R3, X+, R3, Y+, R3, Y+, R3, Z+, R3, Z+, R4, R5, X+, R5, X+, R5, Z+, R6, X+, R6, X-, R6, Z+, R6, X+, R6, Z+, R6, Z+, R7, X+, R7, Z+, R7, Z+, R8, R12, R13, R14, R15, R16, R17, R19, R20, R21, R22, R23, R24, R27, R28, R29	RESC2012M	Res1	53
SW-PB Switch Typical INFRARE LED Typical INFRARE LED Typical INFRARE LED Typical INFRARE LED Header 10 Header, 10-Pin LT1513-2 LTC6990MP SN74HC02PWLE Positive-NOR Gat 4/ 16-bit AVR XM Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrial CATxmega64A3-AU ATxmega64A3-AU	R11, R18	RESC2012M	Res1	2
8V0_RX2	RESET	RESET SWITCH	SW-PB	1
\text{VAR_TX1} \text{LED} \text{Header, 10-Pin} \text{Header, 10-Pin} \text{LT1513-2} \text{LTC6990MP} \text{Cuadrupie 2-input Positive-NOR Gat} \text{SN74HC02PWLE} \text{Positive-NOR Gat} Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pin TOFP, Industrial 40°C to 85°C), Pb	D GaAs SHUTDOWN_X+, SHUTDOWN_Z+	6-0805_M	LED0	3
LT1513-2 LTC6990MP Uuadrupis 2-inpui SN74HC02PWLE 8/16-bit AVR XM Microcontroller, 1, 32MHz, 64K8 + 4 Flash, 2K8 EFR9 4K8 SRAM, 64-pi TOFP, Industrial C	D GaAs SHUTDOWN_X+, SHUTDOWN_Z-	6-0805_M	LED0	3
LTC6990MP SN74HC02PWLE Positive-NOR Gat #/16-bit AVR XM Microcontroller, 1, 32MHz, 64KB + 4 Flash, 2KB EFR 4KB SRAM, 64-pi TOFP, Industrial ATxmega64A3-AU #/C to 85°C), Pb	SPARE	HDR1X10	Header 10	1
SN74HC02PWLE Cuadrupie 2-input Positive-NOR Gat 8/16-bit AVR XM Microcontroller, 1. 32MHz, 64KB + 4 Flash, 2KB EPR 4KB SRAM, 64-pit TOFP, Industrial 40°C to 85°C), Pb	U1_X+, U1_X-, U1_Y+, U1_Y-, U1_Z-	8N	LT1513-2	6
8/ 16-bit AVR XMI Microcontroller, 1. 32MHz, 64KB + 4 Flash, 2KB EEPN 4KB SRAM, 64-pi TOFP, Industrial 4 40°C to 85°C), Pb	U4	SOT26A-6L	LTC6990MP	1
Microcontroller, 1. 32MHz, 64KB + 4 Flash, 2KB EEPR 4KB SRAM, 64-pi TOFP, Industrol ATxmega64A3-AU Microcontroller, 1. 40°C to 85°C), Pb	e U5, U9	TSOP65P640-14AN	SN74HC02PWLE	2
	6-3.6V, KB OM, n Grade (-	044 N	AT	
LICIODUIGN		64A_N	ATxmega64A3-AU	1.
	U7 U8, U8_X+, U8_X-,	SOP635P600-16N	LTC1660IGN	1
ADM4073 Current Sense Arr Precision Micropo	U8_Y+, U8_Y-, U8_Z+,	SOT26A-6N	ADM4073	8
Low Dropout Volta LM4120AIM5-2.0 Reference	U8_Y+, U8_Y-, U8_Z+, polifer U8_Z-, U11 wer	1	1	1
8MHz Crystal Oscillator	U8_Y+, U8_Y-, U8_Z+, polifer U8_Z-, U11 wer	MF05A_N	LM4120AIM5-2.0	<u> </u>