

ATMega809 breakout board
24 digital I/O pins available

Pin	16	15	14	13	12
Name	VIN	VBUS	VDD	VREF	GND
Timer/PWM					
Alt Name					
Mega-0 Pad					

11	10	9	8	7	6	5	4	3	2	1	0
GND	D9	D8	RX0	TX0	D5	D4	D3	D2	RX1	TX1	GND
	TCB3	TCB2					TCB1	TCB0			
	RX2	TX2	D7	D6	EVOUTA				D1	D0	
	PC1	PC0	PB1	PB0	PA7	PA6	PA3	PA2	PA1	PA0	

Mega-0 Pad		PC2	PC3	PD0	PD1	PD2	PD3	PD4	PD5	PE0	PE1	PE2	PE3		PF0	PF1	PF2	PF3	PF6	
Alt Name		TWD	TWCK	D10	D11	D12/EVOUTD	A3	A4	A5	D16/A6	D17/A7	D18/A8	D19/A9					LED		
Timer/PWM				TCA0	TCA0	TCA0	TCA0	TCA0	TCA0											
Name	GND	SDA	SCL	A0	A1	A2	D13	D14	D15	MOSI	MISO	SCK	SS	GND	D20	D21	D22	D23	RESET_L	GND
Pin	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Power
Ground
I2C / TWI
SPI
UART
Analog
CCL

VIN: Power to regulator; VDD: Power to MCU (from VIN, VUSB, or thru this pin); VBUS - I2C; VREF - Analog ref.

Level-shifting I2C bus; requires power on VBUS matching Vcc of communicating device/bus.
SPI alt. position on PORTE
Serial port (Arduino HWSERIALn)
Analog input referenced against VREF
4x LUT inputs on Px0..2, output on Px3

UPDI HEADER	
UPDI	VDD
N/C	RX1
TX1	GND

6-pin UPDI Header only *requires* UPDI and GND pins connected, but offers ability to power MCU and use serial from programmer

All pins except I2C and RESET_L support digital GPIO
EVENT outputs distributed throughout
TCA0 PWM output on D10..D15
TCB0..3 PWM output on D2, D3, D8, D9
See ATMega808/809/1608/1609 Data Sheet, section 4

v1.0