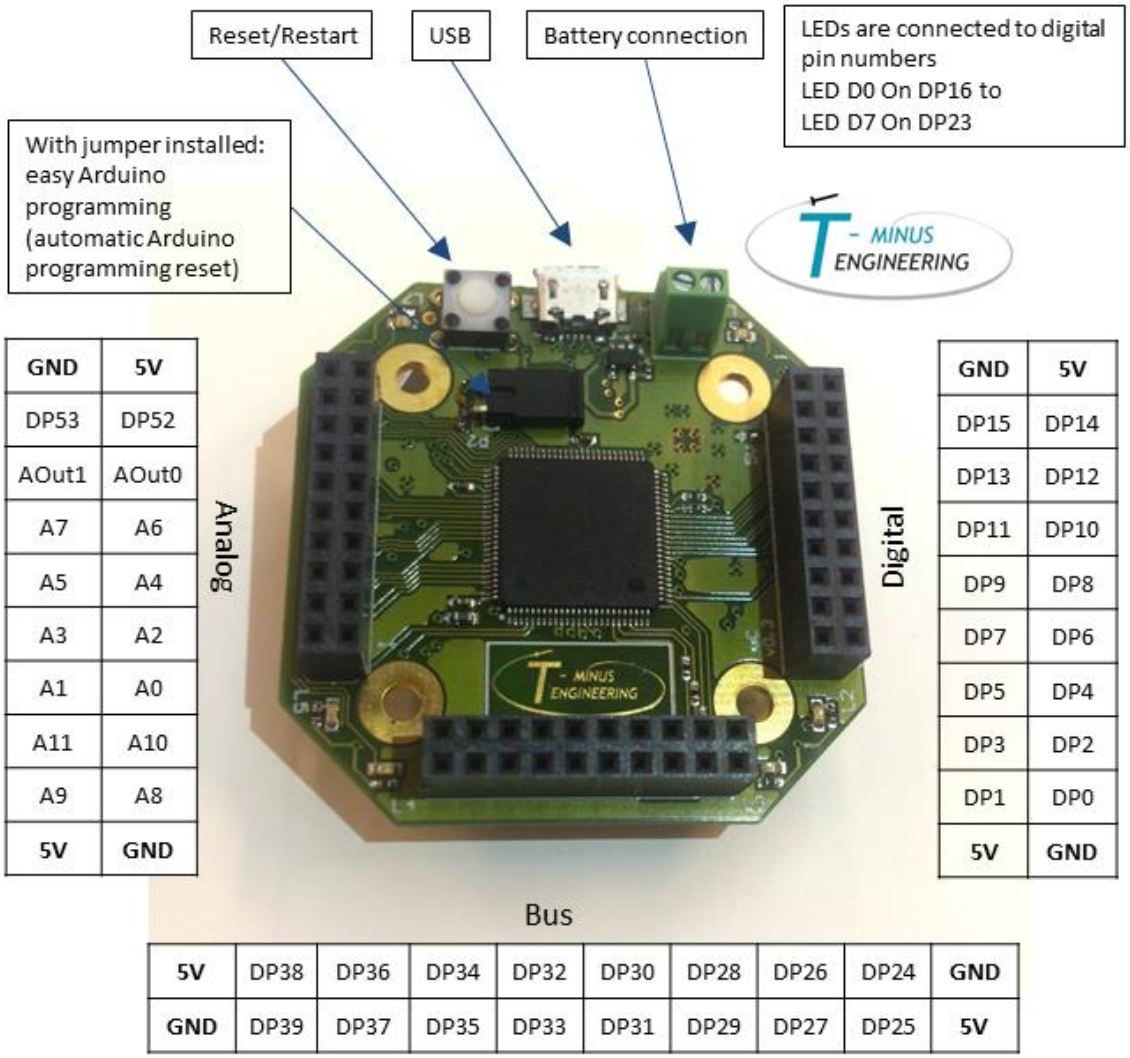
B. T-Minus µC board



GND	5V
DP53	DP52
AOut1	AOut0
A7	A6
A5	A4
A3	A2
A1	A0
A11	A10
A9	A8
5V	GND

GND	5V
DP15	DP14
DP13	DP12
DP11	DP10
DP9	DP8
DP7	DP6
DP5	DP4
DP3	DP2
DP1	DP0
5V	GND

5V	DP38	DP36	DP34	DP32	DP30	DP28	DP26	DP24	GND
GND	DP39	DP37	DP35	DP33	DP31	DP29	DP27	DP25	5V

Figure 45 The T-Minus Engineering B.V. µC board pin layout

The T-Minus µC board uses an Atmega 2560 micro controller. For more information on this micro controller the datasheet can be found on the Atmel website. Table 3 shows which pin of the board is connected to what pin of the micro controller.

Table 3 Pin names and numbers of the µC board

Arduino digital pin numbers	Atmel pin number	connected to connector	function		Arduino digital pin numbers	Atmel pin number	connected to connector	function
DP0	PH0	Digital	digital I/O		**DP 30**	PD6	BUS	T1
DP 1	PH1	Digital	digital I/O		**DP 31**	PB5	BUS	PWM
DP 2	PH2	Digital	digital I/O		**DP 32**	PD1	BUS	SDA
DP 3	PH3	Digital	digital I/O/ PWM		**DP 33**	PD0	BUS	SCL
DP 4	PH4	Digital	digital I/O/ PWM		**DP 34**	PD2	BUS	RXD1
DP 5	PH5	Digital	digital I/O/ PWM		**DP 35**	PD3	BUS	TXD2
DP 6	PH6	Digital	digital I/O/ PWM		**DP 36**	PD5	BUS	XCK1
DP 7	PH7	Digital	digital I/O		**DP 37**	PJ0	BUS	RXD3
DP 8	PL0	Digital	digital I/O		**DP 38**	PJ1	BUS	TXD3
DP 9	PL1	Digital	digital I/O		**DP 39**	PJ2	BUS	XCK3
DP 10	PL2	Digital	digital I/O		**DP 40**	PF0	Analog	A8
DP 11	PL3	Digital	digital I/O/ PWM		**DP 41**	PF1	Analog	A9
DP 12	PL4	Digital	digital I/O/ PWM		**DP 42**	PF2	Analog	A10
DP 13	PL5	Digital	digital I/O/ PWM		**DP 43**	PF3	Analog	A11
DP 14	PL6	Digital	digital I/O		**DP 44**	PK0	Analog	A0
DP 15	PL7	Digital	digital I/O		**DP 45**	PK1	Analog	A1
DP 16	PA0	Onboard LED			**DP 46**	PK2	Analog	A2
DP 17	PA1	Onboard LED			**DP 47**	PK3	Analog	A3
DP 18	PA2	Onboard LED			**DP 48**	PK4	Analog	A4
DP 19	PA3	Onboard LED			**DP 49**	PK5	Analog	A5
DP 20	PA4	Onboard LED			**DP 50**	PK6	Analog	A6
DP 21	PA5	Onboard LED			**DP 51**	PK7	Analog	A7
DP 22	PA6	Onboard LED			**DP 52**	PE2	Analog	AIN0
DP 23	PA7	Onboard LED			**DP 53**	PE3	Analog	PWM/AIN1
DP 24	PB3	BUS	MISO		**DP 54**	PE0	USB	TXD0
DP 25	PB2	BUS	MOSI		**DP 55**	PE1	USB	RXD0
DP 26	PB1	BUS	SCK					
DP 27	PB0	BUS	/SS					
DP 28	PD7	BUS	T0					
DP 29	PB7	BUS	OC0A					