



General description:

The CCU16eco is a control unit based on a 16 bit microcontroller.

It has analogue and digital inputs for reading in sensors and switches.

Furthermore, outputs are provided for switching actuators.

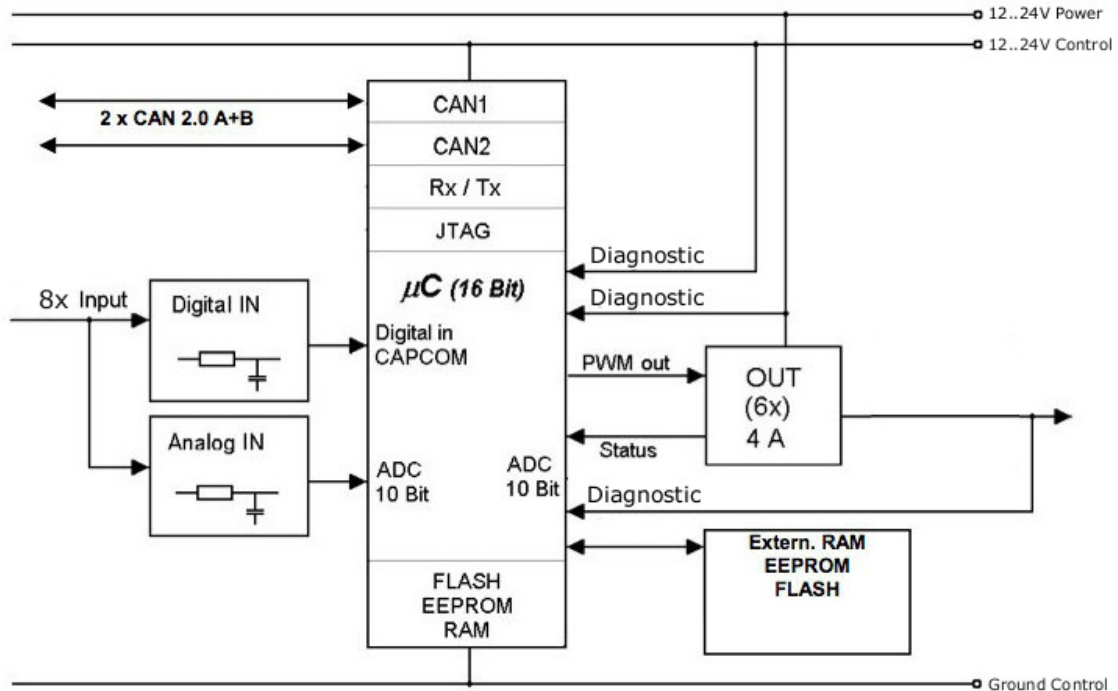
Its typical use is for activating pneumatic or hydraulic valve coils in mobile work machines for the agricultural sector, forestry, municipal technology or the area of construction machinery. The application can, for example, be cutting height regulation or a hydropneumatic axle or cabin suspension.

The software can be adapted to the respective application. This concerns the logical link between inputs and outputs. The activation of the outputs and reading in the sensors is hard programmed in the master software and cannot be changed by the user.

Pin assignment

Pin	Pin no.	Assignment
6 pole	1	CAN 1 – L
	2	+12V electronics
	3	CAN 2 – L
	4	CAN 1 – H
	5	GND electronics
	6	CAN 2 – H
16 pole	1	+12V power
	2	Output A6
	3	Output A5
	4	Output A4
	5	Output A3
	6	Output A2 (PWM with current measurement)
	7	Output A1 (PWM with current measurement)
	8	GND power
	9	Input E8 / 5V reference, 10mA
	10	Input E7
11	Input E6	
12	Input E5	
13	Input E4	
14	Input E3	
15	Input E2	
16	Input E1	

Block circuit diagram



General data	Value	Unit	Specifications
Inputs	8		Optionally analogue / digital / frequency (max. 3)
Outputs	6		PWM (2 with current regulation), max. 4 amp
Outputs	1		5V sensor voltage
Pin	6 / 16	pin	SAAB / Tyco
Protection category			IP66K
Processor	16	bit	Infineon SAK-XC164CS
Memory	256	KByte	Internal flash
Memory	512	KByte	External flash
Memory	2	KByte	FRAM
Memory	128	KByte	RAM
CAN	2		High speed (max. 1 Mbit/s) according to ISO 11898
Standards and guidelines			CN050215; ISO 11783; SAE J1939
Reliability	10,000	hours	With a 60% factor of equivalence