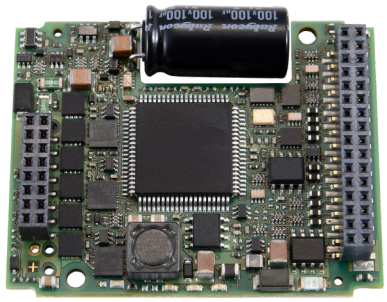
Servo amplifier

mcDSA-S65-Modul

Article number: 1506122



Picture similar

Technical data

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V	typ. 35 mA
Power supply voltage Up	9..60 V
Max. output current	10 A
Output voltage	85% Up
PWM frequency	25, 32, 50* kHz
Min. load inductance	200 uH
Mechanical	
Size LxWxH	52.5 x 41 x 11 mm
Weight	18 g
Environment	
Protection class	IP00
Operating temperature	0..70 °C
Rel. humidity (non-condensing)	5..85 %
Incremental encoder	
Type	incremental
Signals	A,B,Inx
Max. freqency (per channel)	100 kHz
Input voltage	5 V
Signal type	open collector, single ended
Digital inputs	
Number	4 (Din0..3)
Low voltage	-10..5 V
High voltage	6..30 V
Notice	Din3 parallel with Dout1
Digital outputs	
Number	2 (Dout0..1)
Continous output current	1.5 A
Load	resistive, induktive
Output voltage	Electronic supply voltage Ue
Signal type	positive switching
Notice	Dout1 parallel with Din3
Analog inputs	
Number	2 (Ain0..1)
Signal type	+/- 10 V, 12 Bit, single ended
CAN bus	
Protocol	DS301
Device profile	DS402
Max. baudrate	1 Mbit/s
CAN specification	2.0B
Galvanically isolated	no

* default value

Additional technical data are available in mcManual.

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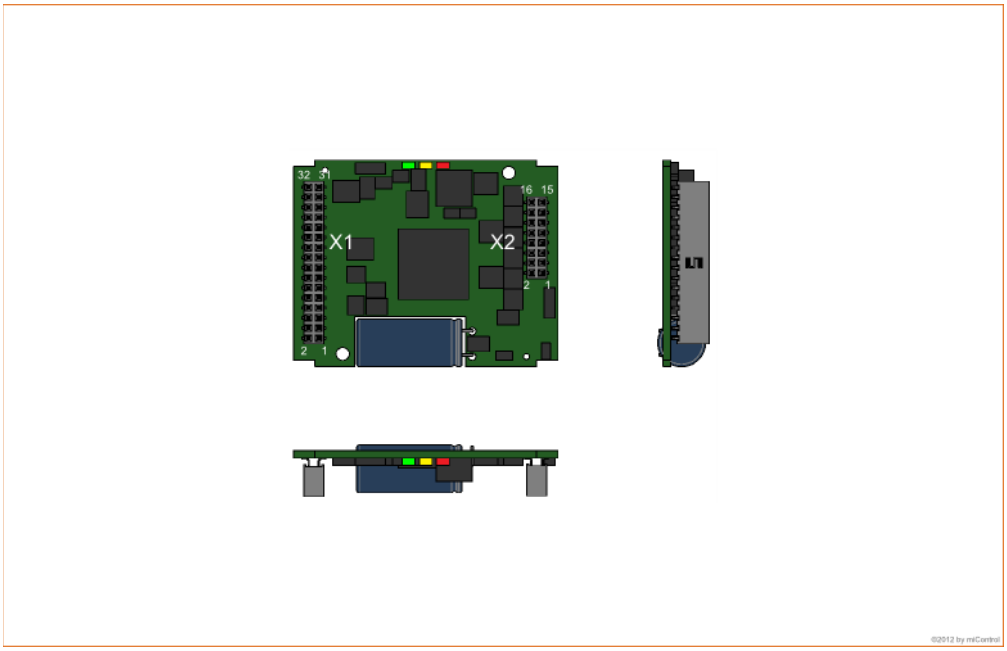
Scheme



Terminal assignment

X1	Inc. encoder, I/O's and CAN	
1	Inx	Inc. encoder, index channel
2	Id7	Node id bit 7
3	+U5V	5V auxiliary voltage (hall and encoder)
4	Id6	Node id bit 6
5	B	Inc. encoder, B channel
6	Id5	Node id bit 5
7	A	Inc. encoder, A channel
8	Id4	Node id bit 4
9	res.	Reserved
10	Id3	Node id bit 3
11	res.	Reserved
12	Id2	Node id bit 2
13	res.	Reserved
14	Id1	Node id bit 1
15	CAN Lo	CAN Low
16	Id0	Node id bit 0
17	CAN Hi	CAN High
18	Erw2	mcSPI expansion signal 2
19	Dout0	Digital output 0
20	Erw1	mcSPI expansion signal 1
21	Din2	Digital input 2
22	SpiSCK	mcSPI Clock
23	Din1	Digital input 1
24	SpiMOSI	mcSPI Master Out Slave In
25	Din0	Digital input 0
26	Spi/SS	mcSPI Slave Select
27	Ain0	Analog input 0
28	SpiMISO	mcSPI Master In Slave Out
29	Ain1	Analog input 1
30	Din3/Dout1	Digital input 3 / Digital output 1
31	GND	Ground for 5V auxiliary voltage (hall and encoder)
32	res.	Reserved

X2	Motor	
1	+Up	Power supply voltage
2	res.	Reserved
3	+Up	Power supply voltage
4	FE	Functional earth
5	GND	Ground for power and electronic supply voltage
6	GND	Ground for power and electronic supply voltage
7	Ma	Motor phase A
8	+Ue	Electronic supply voltage
9	Ma	Motor phase A
10	+Ue	Electronic supply voltage
11	Mb	Motor phase B
12	Mb	Motor phase B
13	Mc	Motor phase C
14	Md	Motor phase D
15	Mc	Motor phase C
16	Md	Motor phase D

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