



Vogelaar Electronics

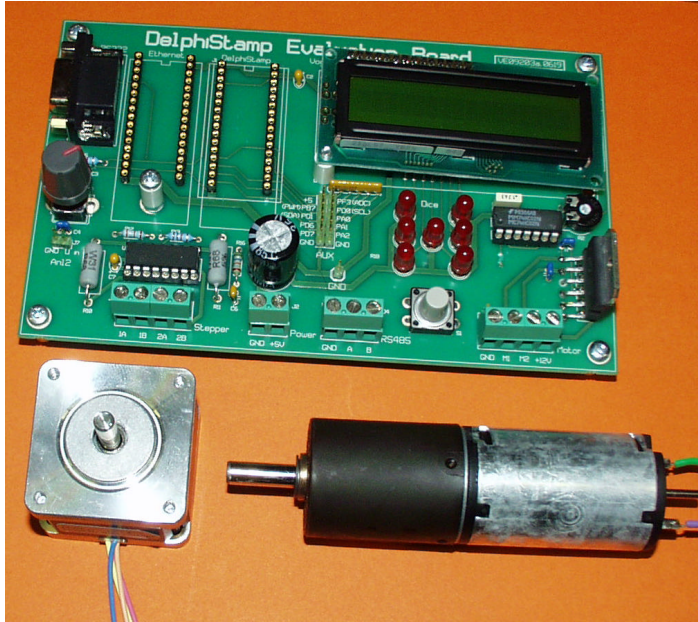
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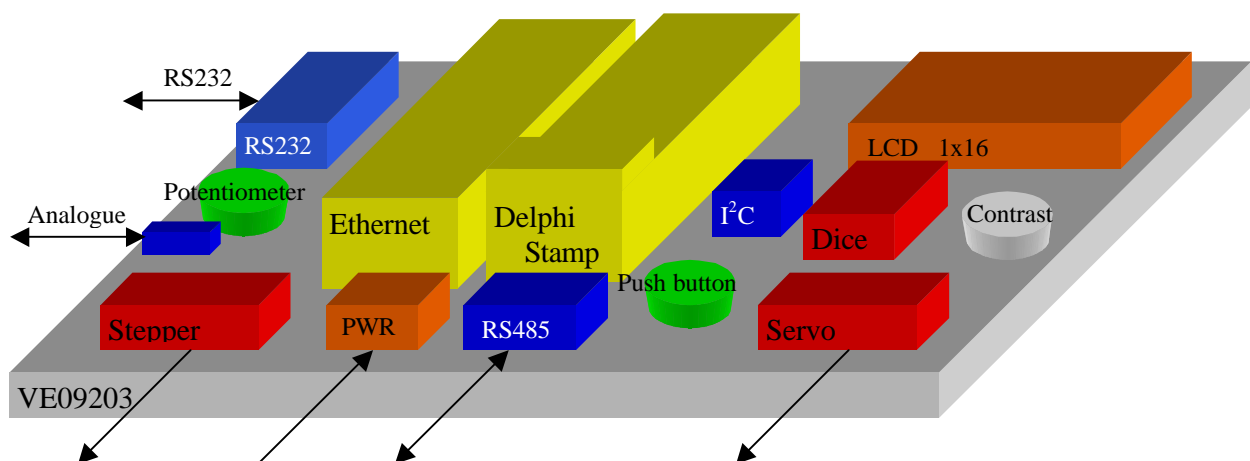
Delphi Stamp evaluation VE 09203

DS09203.doc 10-11-06



Open PCB configuration
DelphiStamp VE08201 connector
Ethernet VE08202 connector
RS232 connector for programming
1 line x 16 character LCD
LED dice
Push button – digital In
Potentiometer – analog In
Stepper & servo motor interface
Header for 2 x 20 LCD
Header with 7 I/O and I²C
Terminals power, motors, RS485

The VE09203 is an evaluation board for the Delphi Stamp. It provides for an easy connection to an external PC for programming, testing and debugging, remote control and for an easy connection to an external +5 Volt DC power supply.

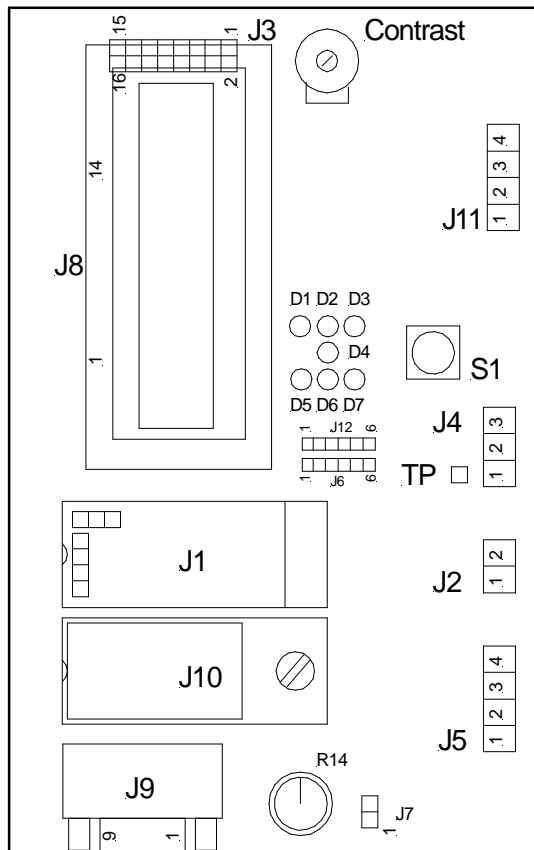


The Delphi Stamp's test program and resident drivers can control the on-board peripherals. These peripherals include a stepper and servo motor interface, a potentiometer to feed the A/D converter, a push button to feed a digital input, a dice containing 7 LED's to observe the status of digital outputs, a LCD display and a screw terminal with an RS485 interface to control a LAN. There are on-board headers providing more digital I/O, I²C, A/D inputs and to control a larger LCD. A socket is available for the VE08202 ethernet interface.

Specifications:

Mechanical:	
Dimensions	100 x 160 x 30 mm
Weight	140 gram
Temperature	0 .. 50 °C
Electrical:	
Power supply (1)	+5 VDC +/- 5% @ 150 mA incl. Delphi Stamp and Eth
Power supply (2)	+5 VDC +/- 5% @ 960 mA incl. Stepper motor
On-board:	
Potentiometer	A/D on PF1
Push-button	Normally High on PD0
Dice	High = Off on PB6..0
LCD	1 line x 16 character PE7..2, PF0
Stepper motor driver	Unifilar - half step - PA2..0, PF3 4 VDC 2 x 400 mA
Servo motor	12 VDC 1000 mA - PB7, PD6 and PD7
RS485	through MAX 487 CSA
RS232	9 pin female (2 - 3 - 5)
Headers 0.1"	
J7 Analog - in	PF2
J6 and J12	Vdd Gnd 9 x I/O incl. I ² C
J3 External LCD	Up to 2 lines x 40 characters

Dimensions and connections:



J2 Power	
1	Gnd
2	+5 VDC

J5 Stepper	
1	Wdg 1a
2	Wdg 1b
3	Wdg 2a
4	Wdg 2b

J11 Servo	
1	GND
2	M1
3	M2
4	+12 VDC

J4 RS485	
1	Gnd
2	Rx/Tx A
3	Rx/Tx B

J9 RS232	
2	Tx
3	Rx
5	Gnd

J7 Anl In	
1	Gnd
2	PF2

J6 I/O	
1	Vdd
2	PB7 / pwm
3	PD1 / SDA
4	PD6
5	PD7
6	Gnd

J12 I/O	
1	PF3 / ADC
2	PD0 / SCL
3	PA0
4	PA1
5	PA2
6	Gnd

J3 Ext LCD	
1	Gnd
2	Vdd
3	Contrast
4	PE2
5	PF0
6	PE3
11	PE4
12	PE5
13	PE6
14	PE7