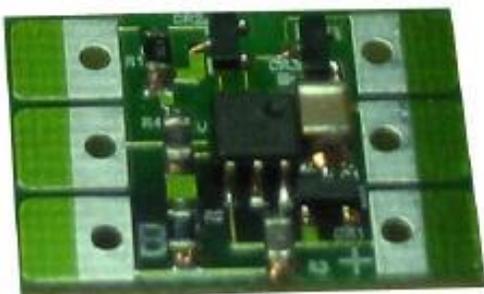


<http://www.EmbeddedDataSystems.com>

FEATURES

- 2 channels each configurable as either digital input, or digital output.
- All data transfers are CRC16 error checked.
- Digital outputs, (A) sink 50-mA., (B) sink 8-mA.
- Digital inputs are latched until read.
- Built-in multidrop controller, (DS2406).
- Up to 1000 Feet, 100 devices.
- 1-Wire communication protocol.
- Phoenix screw connectors.



DESCRIPTION

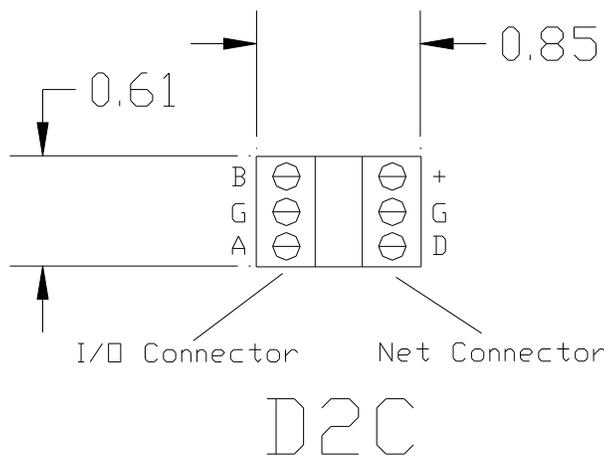
The D2C, 2 channel digital I/O expansion card, provides two I/O channels which can individually be configured as a digital input with latch or a high current sink digital output. Digital input and output functions can coexist.

The D2C has a built-in multidrop controller (DS2406) which provides a unique 64 bit registration number (8-bit family code + 48 bit serial number + 8 bit CRC) assuring error-free selection and absolute identity; no two parts are alike. Unique addressing allows I/O function to be identified absolutely, no more dip switch address confusion. Status input, latched-input-activity and output-latch functions allow input, output and fast event catch functionality to hundreds of I/O points on a 1-Wire bus. The DS2406 provides the digital I/O functions. The I/O connector is marked "A" I/O position one, "G" common ground returns, "B" I/O position two.

The D2C is designed to allow a network of input and output modules to operate on a two or three wire bus, power("+"), common("G") and data("D"). The D2C can be powered locally or the power may be bussed with the 1-Wire signal in a three wire system. The bussed power must be regulated 5V.

The D2C is compatible with OneSix DDE server and our family of 1-Wire enabled devices, as well as any 1-Wire host with support for the Dallas Semiconductor DS2406 Dual Addressable Switch and EDS Analog.

PACKAGE OUTLINE



PARAMETER	MIN	TYP	MAX	UNITS
Supply Voltage	4.5	5	5.5	Volts
Supply Current	3	5	8	mA.
Output Sink Current (A Position 1)		50	see DS2406	mA.
Output Sink Current (B Position 2)		8	see DS2406	mA.

1-Wire® is a registered trademark of Maxim. Phoenix™ is a trademark of Phoenix Contact. OneSix™ is a trademark of Point Six, Inc.