DLC2400 Network Interface
P/N KA-WEB-I2C-TH

DLC-NET
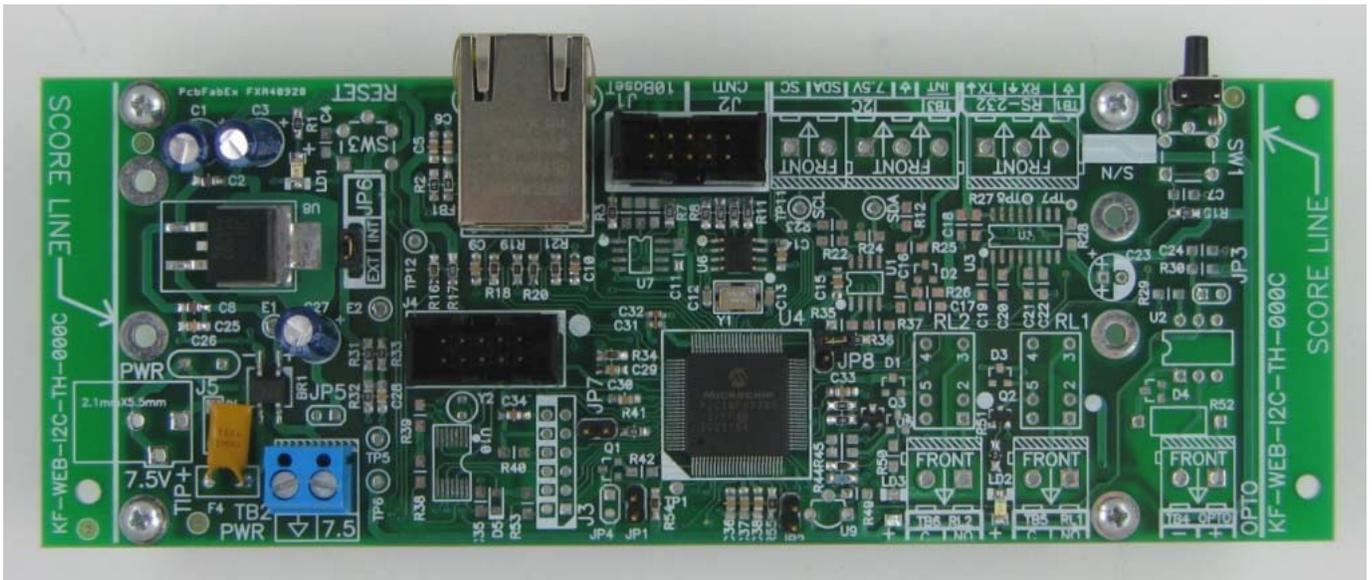
User Manual

DLC2400 Network Interface
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What Does It Do?

Provides an Ethernet connected interface to the DLC-2400 system.

What Do I Need To Make It Work?

- DLC-2400 driver board.
- 7.5VDC.

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How to Use This Device

Connect 7.5VDC to terminal block TB2

Ensure jumper JP6 is shunted, as illustrated in Figure 1.

Connect a 2x5 ribbon cable from connector J2 to the DLC driver board.

Connect to your network via a standard Ethernet cable plugged into jack J1.

Default network settings:

IP Address: 192.168.1.100
Subnet Mask: 255.255.255.0
Gateway Address: 192.168.1.1
DNS Server: 192.168.1.1 (not used)

To restore default network settings press and hold SW1 for three seconds. LD4 will blink when settings are restored.

Switch from DHCP to static addressing by placing a jumper on JP8

To apply updated static addressing, either reboot the device or re-seat jumper on JP8

Operation:

Communicate with the device by sending UDP packets to the device's IP address on any port
All communications are two or three bytes in length

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Controller will ACK every UDP message with 0xA5

First send 0x63
Then send the command code
Finally send an argument if required

Commands:

0x65 - Enable light
0x64 - Disable light (will not disable flashing light)
0x69 - Enable flash (overrides steady state light)
0x68 - Disable flash
0x67 - Commit changes
0x6A - Disable all lights (flashing and steady)

0x11 - Set first octet of IP Address
0x12 - Set second octet of IP Address
0x13 - Set third octet of IP Address
0x14 - Set fourth octet of IP Address

0x21 - Set first octet of Subnet Mask
0x22 - Set second octet of Subnet Mask
0x23 - Set third octet of Subnet Mask
0x24 - Set fourth octet of Subnet Mask

0x31 - Set first octet of Gateway Address
0x32 - Set second octet of Gateway Address
0x33 - Set third octet of Gateway Address
0x34 - Set fourth octet of Gateway Address

0x41 - Set first octet of DNS Server
0x42 - Set second octet of DNS Server
0x43 - Set third octet of DNS Server
0x44 - Set fourth octet of DNS Server

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Arguments:
For enabling or disabling lights and flashing, send the desired bank and lamp number (banks upper five bits 0-15, lights lower three bits 1-6)
For changing network settings, send the octet being changed in hexadecimal

Examples:
To disable lamp 9 - send 0x63 0x64 0x0B, 0x63 0x67
To cause lamp 20 to start flashing - send 0x63 0x69 0x12, 0x63 0x67
To set the static IP Address to 192.168.2.150 - send 0x63 0x13 0x02, 0x63 0x14 0x96, reboot the device

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Illustrations
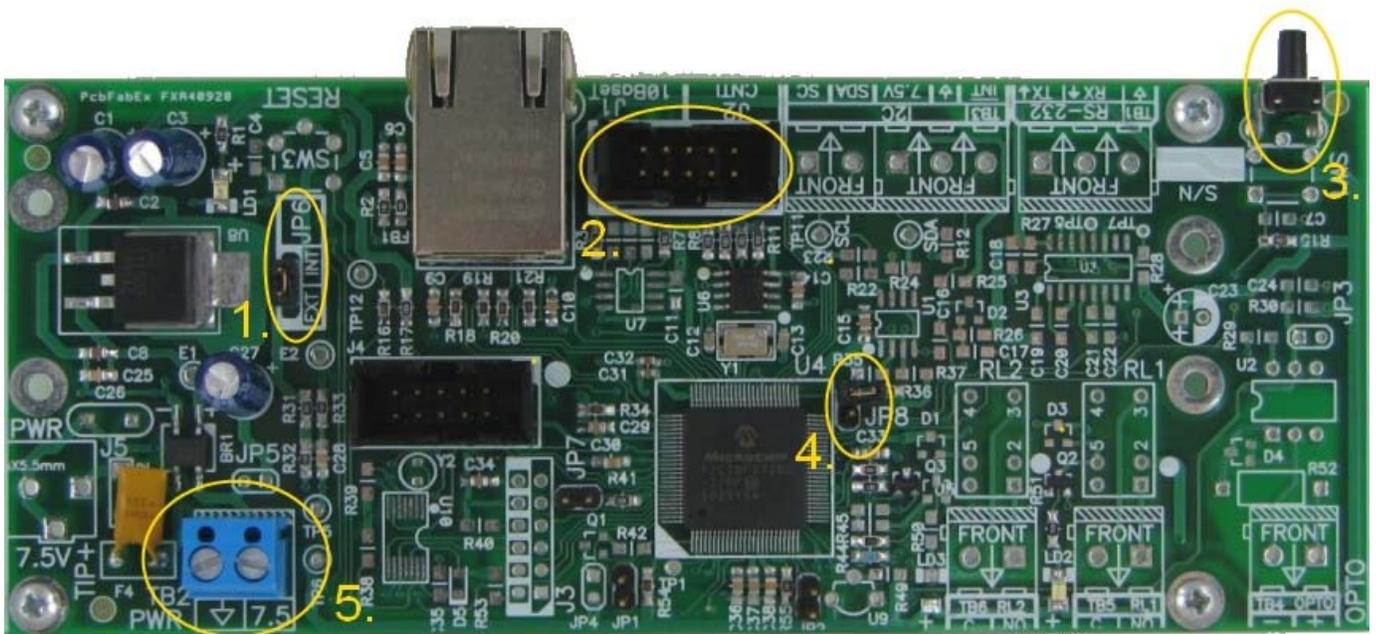
Figure 1:
1. *Jumper JP6, leave jumpered*
2. *Connector J2, connect to DLC-2400 board*
3. *Switch SW1, hold to reset network settings to default*
4. *Jumper JP8, jumper to use static addressing*
5. *Terminal Block TB2, 7.5VDC power input*

Technical Specifications

Number of Output Ports	8
Arrangement	Form A, SPST
Contact Materials	Optically isolated
Input Port Voltage	5VDC, 5mA minimum
Maximum Switching	100 Hz
Max. allowable Voltage	12VDC
Max allowable current	12mA
Operating humidity	10-80% RH non-condensing
Ambient Temperature	0 to 60 C (with no icing)
Unit Weight	About 120 grams (4.3oz)
Form Factor	64 mm W x 252 mm L (2.5" X 9.9")
Total Power Consumption	7.5VDC @ 100mA max.
Short-Circuit Protection	1.5A with resettable PTC fuse
Power Indicator	Green LED

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