

51553/51852-EVAL

This CD contains information for using the evaluation board and the Optrex DMF51553, DMF51852 display. The Atmel AT89C4051 contains a small demonstration program containing graphic and character screens. The evaluation board may be connected to the customers interface by simply removing the AT89C4051 microprocessor, connecting directly to the display through connector J6. A jumper is connected between J6 pins 14 and 16 to supply power to the backlight.

To run the self executing demo all that is required is a 5 volt supply. Apply ground to J4 pin 2 and +5 volts to J4 pin 1. The demo code is provided on the CD to aid in the customers development.

Display contrast may be adjusted by potentiometer R4 .

Data sheets for FFC connectors are also provided to aid in the design process,

Oupiin, (800) 820-7446 www.oupiin.com
Molex, (800) 786-6539 www.molex.com
Hirose, (805) 522-7958 <http://www.hirose.com/hiroseusa.htm>

If desired the supplied Atmel microprocessor is a flash device so it may be erased and reprogrammed with customers custom code. Atmel's website (www.atmel.com) contains a wealth of information and third party tools for developing with the AT89C4051 microprocessor. Enclosed on the CD is some of this information along with two shareware assemblers.

Connector Pinning:

J6-

- | | |
|-----------------|---|
| 1. Chip Select\ | 2. Reset\, a reset circuit is provided on the Eval board. |
| 3. A0 | 4. WR\ |
| 5. RD\ | 6. D0 |
| 7. D1 | 8. D2 |
| 9. D3 | 10. D4 |
| 11. D5 | 12. D6 |
| 13. D7 | 14. +5 Volts |
| 15. Ground | 16. Backlight +5 volts |

J5-

1. + 5 volts
2. Ground

Mating connector, Molex 22-01-3027. Pin, Molex 08500114