

## Features

- 4.3" WQVGA (480x272) TFT LCD with 24-bit parallel RGB interface
- Resistive 4-wire touch screen

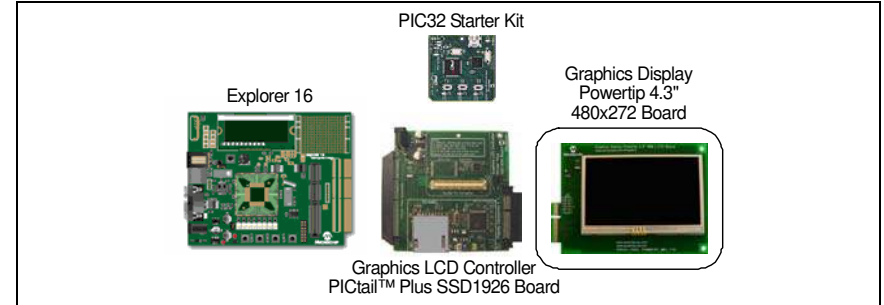
## Other Information

To obtain the most recent and complete documentation for this demonstration board, please refer to the Microchip web site: <http://www.microchip.com/graphics>

Please see the reverse side for the Graphics Display Powertip 4.3" 480x272 Board schematic.

# Graphics Display Powertip 4.3" 480x272 Board

## Getting Started



To get started, a development board with the Display Connector V1, such as the Graphics LCD Controller PICtail™ Plus SSD1926 Board (AC164127-5), is required. Please refer to its documentation for more details (DS51790).

The Graphics Display Powertip 4.3" 480x272 Board can be used in conjunction with the Graphics Library for Microchip microcontrollers. The Microchip Graphics Library and other firmware examples can be downloaded from <http://www.microchip.com/graphics>.

## Signal Interface

| Pin No.          | Symbol     | Level | Description                    |
|------------------|------------|-------|--------------------------------|
| A1, B1           | +9V        | +9.0V | Power Supply                   |
| A2, B2           | GND        | GND   | Ground                         |
| A3, A4           | +3.3V      | +3.3V | Power Supply                   |
| B3, B4           | +5V        | +5.0V | Power Supply                   |
| A5, B5           | GND        | GND   | Ground                         |
| A6               | LEFT/X-    | I/O   | Touch Panel Left               |
| B6               | TOP/Y-     | I/O   | Touch Panel Top                |
| A7               | RIGHT/X+   | I/O   | Touch Panel Right              |
| B7               | BOTTOM/Y+  | I/O   | Touch Panel Bottom             |
| A8-A11, B8-B10   | NC         | —     | Not Connected                  |
| B11              | BKLHT_PWM  | I     | PWM Input for Backlight Driver |
| A12, B12         | GND        | GND   | Ground                         |
| A13              | SHIFT      | I     | Pixel Shift Signal             |
| B13              | DEN        | I     | Data Enable                    |
| A14              | FRAME      | I     | Frame Pulse                    |
| B14              | LINE       | I     | Line Pulse                     |
| A15, B15, A16    | R7, R6, R5 | I     | Red Data                       |
| B16, A17, B17    | G7, G6, G5 | I     | Green Data                     |
| A18, B18, A19    | B7, B6, B5 | I     | Blue Data                      |
| B19, A20, B20    | R4, R3, R2 | I     | Red Data                       |
| A21, B21, A22    | G4, G3, G2 | I     | Green Data                     |
| B22, A23, B23    | B4, B3, B2 | I     | Blue Data                      |
| A24, B24         | R1, R0     | I     | Red Data                       |
| A25, B25         | G1, G0     | I     | Green Data                     |
| A26, B26         | B1, B0     | I     | Blue Data                      |
| A27              | RESET      | I     | Glass Reset                    |
| B27              | CS         | I     | SPI Chip Select                |
| A28              | SCK        | I     | SPI Clock                      |
| B28              | MOSI       | I     | SPI Master Output Slave Input  |
| A29-A31, B29-B31 | NC         | —     | Not Connected                  |
| A32, B32         | GND        | GND   | Ground                         |

### Americas

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 Cleveland - 216-447-0464  
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### Asia/Pacific

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 Thailand - Bangkok - 66-2-694-1351

### Europe

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