

Features

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

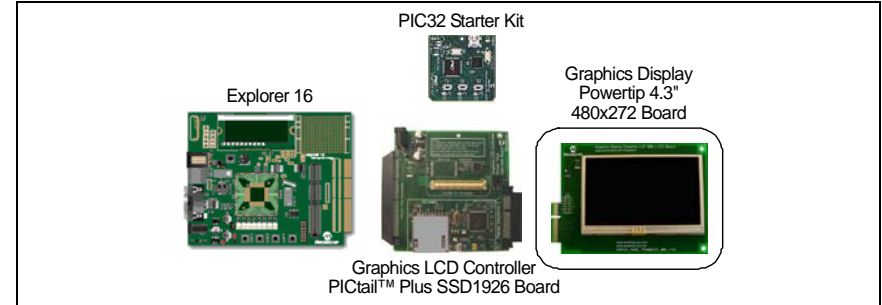
Other Information

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

Atlanta - 678-957-9614
 Boston - 774-760-0087
 Chicago - 630-285-0071
 Cleveland - 216-447-0464
 Dallas - 972-818-7423
 Detroit - 248-538-2250
 Indianapolis - 317-773-8323
 Los Angeles - 949-462-9523
 Phoenix - 480-792-7200
 Santa Clara - 408-961-6444
 Toronto - 905-673-0699

Asia/Pacific

Australia - Sydney - 61-2-9868-6733
 China - Beijing - 86-10-8569-7000
 China - Chengdu - 86-28-8665-5511
 China - Chongqing - 86-23-8980-9588
 China - Hangzhou - 86-571-8792-8115
 China - Hong Kong SAR - 852-2943-5100
 China - Nanjing - 86-25-8473-2460
 China - Qingdao - 86-532-8502-7355
 China - Shanghai - 86-21-5407-5533
 China - Shenyang - 86-24-2334-2829
 China - Shenzhen - 86-755-8864-2200
 China - Wuhan - 86-27-5980-5300
 China - Xiamen - 86-592-2388138
 China - Xian - 86-29-8833-7252
 China - Zhuhai - 86-756-3210040
 India - Bangalore - 91-80-3090-4444
 India - New Delhi - 91-11-4160-8631
 India - Pune - 91-20-3019-1500
 Japan - Osaka - 81-6-6152-7160
 Japan - Tokyo - 81-3-6880-3770
 Korea - Daegu - 82-53-744-4301
 Korea - Seoul - 82-2-554-7200
 Malaysia - Kuala Lumpur - 60-3-6201-9857
 Malaysia - Penang - 60-4-227-8870
 Philippines - Manila - 63-2-634-9065
 Singapore - 65-6334-8870
 Taiwan - Hsin Chu - 886-3-5778-366
 Taiwan - Kaohsiung - 886-7-213-7828
 Taiwan - Taipei - 886-2-2508-8600
 Thailand - Bangkok - 66-2-694-1351

Europe

Austria - Weis - 43-7242-2244-39
 Denmark - Copenhagen - 45-4450-2828
 France - Paris - 33-1-69-53-63-20
 Germany - Munich - 49-89-627-144-0
 Italy - Milan - 39-0331-742611
 Netherlands - Drunen - 31-416-690399
 Spain - Madrid - 34-91-708-08-90
 UK - Wokingham - 44-118-921-5869

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Graphics Display Powertip 4.3" 480x272 Board

Board Schematic Revision 2

