

# gen4-4DPi Series

gen4-4DPi-43T (4.3 " Resistive Touch)  
gen4-4DPi-50T (5.0 " Resistive Touch)  
gen4-4DPi-70T (7.0 " Resistive Touch)  
gen4-4DPi-43CT-CLB (4.3 " Capacitive Touch w/ CLB)  
gen4-4DPi-50CT-CLB (5.0 " Capacitive Touch w/ CLB)  
gen4-4DPi-70CT-CLB (7.0 " Capacitive Touch w/ CLB)

## Datasheet

Revision 1.8

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# Contents

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1. Description	4
2. Features	0
3. Pin Configuration and Summary	0
4. Connecting the Display to the Pi	0
4.1. Hardware Connection	0
4.2. Software Download/Installation	0
4.3. Calibrating the Touch Screen	0
4.4. Change the Display Orientation	0
4.5. gen4-4DPi-Adaptor Push Button	0
4.6. SPI Frequency and Compression	0
4.7. Backlight Control	0
4.8. Parameters Listing	0
4.9. HDMI or 4DPi Output	0
4.10. DPI Adjustment	0
5. Display Module Part Numbers	0
6. Cover Lens Bezel Mounting	0
7. Standard FFC Cable Specification	0
8. Latest Kernel Versions	0
9. Mechanical Details gen4-4DPi-43T	0
10. Mechanical Details gen4-4DPi-50T	0
11. Mechanical Details gen4-4DPi-70T	0
12. Mechanical Details gen4-4DPi-43CT-CLB	0
13. Mechanical Details gen4-4DPi-50CT-CLB	0
14. Mechanical Details gen4-4DPi-70CT-CLB	0
15. Schematic Diagram gen4-4DPi (Display module)	0
16. Schematic Diagram gen4-4DPi-Adaptor (Display Adaptor)	0
17. Specifications	0

18. Appendix 1 - Code Examples - Push Buttons	0
18.1. Example for communicating to Push Buttons, for C language	0
18.2. Example for communicating to Push Buttons, for Python language	0
18.3. Example for Shutdown and Reset buttons, for C language	0
18.4. Example for Shutdown and Reset buttons, for Python language	0
19. Revision History	0
20. Legal Notice	0
20.1. Proprietary Information	0
20.2. Disclaimer of Warranties & Limitations of Liabilities	0

## 1. Description

The gen4-4DPi range is the Primary Display for the Raspberry Pi A+, B+, Pi2, Pi3, Pi3 B+, Pi4, Pi Zero, Pi Zero W and Pi Zero 2 W, which displays the primary output of the Raspberry Pi, like what is normally sent to the HDMI or Composite output. It features an integrated Resistive Touch panel or Capacitive Touch panel, enabling the gen4-4DPi to function with the Raspberry Pi without the need for a mouse.

Communication between the gen4-4DPi and the Raspberry Pi is interfaced with a high-speed 48 MHz SPI connection, which uses an onboard processor for direct command interpretation and SPI communication compression, and features a customised DMA-enabled kernel. This combination allows this display to output a high frame rate compared to other SPI display solutions, when displaying a typical image/video, and can achieve higher depending on if the image can be compressed.

The gen4-4DPi is designed to work with the Raspberry Pi Operating System (previously named Raspbian OS) running on the Raspberry Pi, as that is the official Raspberry Pi operating system. It is also compatible with Pixel and Scratch.

### Note

The display resolution of the 4.3" is 480x272 pixels, while the 5.0" and the 7.0" are 800x480 pixels, and thus may not display all menus on the desktop fully, without some downscaling.

The gen4-4DPi range connects to the Raspberry Pi's 40-pin header using the gen4-4DPi Adaptor, which then connects to the gen4-4DPi display module using a 30-way FFC Cable.

### Note

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