



4D SYSTEMS
TURNING TECHNOLOGY INTO ART

4D Raspberry Pi Serial Adaptor

4D-Serial-Pi-Adaptor

DATASHEET

Document Date: 20th November 2012
Document Revision: 1.0

Contents

1. Description..... 3

2. Specifications and Ratings..... 4

3. Legal Notice..... 5

4. Contact Information 5

1. Description

The 4D Raspberry Pi Serial Adaptor (4D-Serial-Pi-Adaptor) is a simple Raspberry Pi adaptor designed to provide a convenient interface to attach 4D Systems display modules to the Raspberry Pi platform, without having to use jumper wires on the Raspberry Pi headers.

The 4D Raspberry Pi Serial Adaptor is included in various Raspberry Pi Module Packs, but can be purchased separately if a 4D Display Module is not required or is owned already.

Communication to the 4D Systems Display Modules is performed via the Raspberry Pi's serial port (RX and TX), and is provided to the user in a simple 5-pin interface, where a 5 way cable (included in the Raspberry Pi Module Packs) can be attached between the adaptor and the Display Module.

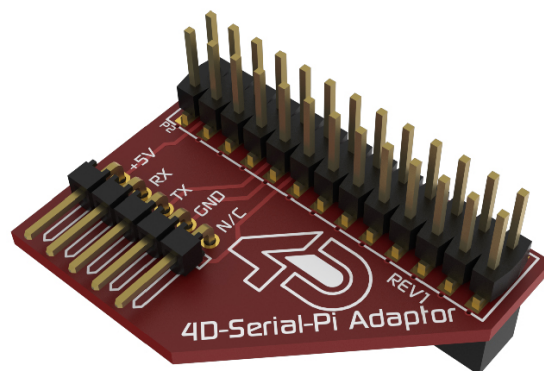
Power for the display is supplied from the Raspberry Pi's 5V bus. No external power is required for the Display Module as all power is supplied from the Raspberry Pi, via the Adaptor.

The 4D Raspberry Pi Serial Adaptor is compatible with the following 4D Systems display modules:

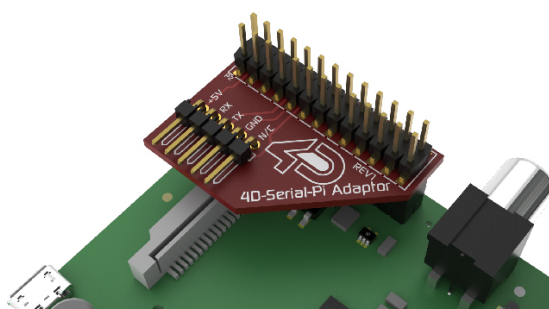
- uLCD-24PT
- uLCD-28PT
- uLCD-32PT
- uOLED-96-G1/G2
- uOLED-128-G1/G2
- uOLED-160-G1/G2
- uLCD-144-G1/G2
- uLCD-43 (All versions)
- uLCD-24-PTU
- uLCD-28-PTU
- uLCD-32-PTU
- uLCD-32W-PTU

While older modules from 4D Systems may be pin compatible, the 4D Raspberry Pi Library may not specifically support them.

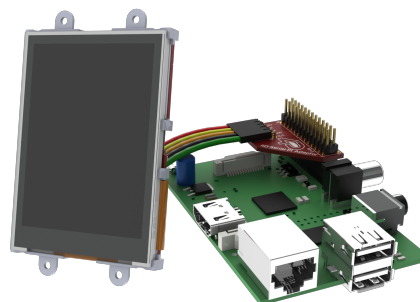
The 4D Raspberry Pi Library is available to download from the 4D Systems website, www.4dsystems.com.au



4D Raspberry Pi Serial Adaptor



4D Raspberry Pi Serial Adaptor attached to a Raspberry Pi



**4D Raspberry Pi Display Module Pack
(4D Raspberry Pi Serial Adaptor is 1 part of this pack)**

2. Specifications and Ratings

RECOMMENDED OPERATING CONDITIONS					
Parameter	Conditions	Min	Typ	Max	Units
Supply Voltage (VCC)		4.5	--	5.5	V
Operating Temperature		-10	--	+70	°C
UART Voltage	Raspberry Pi is 3.3V only 4D System modules are 5V tolerant		3.3		V

ORDERING INFORMATION	
Order Code: 4D-Serial-Pi-Adaptor	
Package: 65mm x 50mm x 30mm	
Packaging: Module sealed in antistatic foam padded 4D Systems Box	

3. Legal Notice

Proprietary Information

The information contained in this document is the property of 4D Systems Pty. Ltd. and may be the subject of patents pending or granted, and must not be copied or disclosed without prior written permission.

4D Systems endeavours to ensure that the information in this document is correct and fairly stated but does not accept liability for any error or omission. The development of 4D Systems products and services is continuous and published information may not be up to date. It is important to check the current position with 4D Systems. 4D Systems reserves the right to modify, update or make changes to Specifications or written material without prior notice at any time.

All trademarks belong to their respective owners and are recognised and acknowledged.

Disclaimer of Warranties & Limitation of Liability

4D Systems makes no warranty, either expressed or implied with respect to any product, and specifically disclaims all other warranties, including, without limitation, warranties for merchantability, non-infringement and fitness for any particular purpose.

Information contained in this publication regarding device applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that your application meets with your specifications.

Images and graphics used throughout this document are for illustrative purposes only. All images and graphics used are possible to be displayed on the 4D Systems range of products, however the quality may vary.

In no event shall 4D Systems be liable to the buyer or to any third party for any indirect, incidental, special, consequential, punitive or exemplary damages (including without limitation lost profits, lost savings, or loss of business opportunity) arising out of or relating to any product or service provided or to be provided by 4D Systems, or the use or inability to use the same, even if 4D Systems has been advised of the possibility of such damages.

4D Systems products are not fault tolerant nor designed, manufactured or intended for use or resale as on line control equipment in hazardous environments requiring fail – safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines or weapons systems in which the failure of the product could lead directly to death, personal injury or severe physical or environmental damage ('High Risk Activities'). 4D Systems and its suppliers specifically disclaim any expressed or implied warranty of fitness for High Risk Activities.

Use of 4D Systems' products and devices in 'High Risk Activities' and in any other application is entirely at the buyer's risk, and the buyer agrees to defend, indemnify and hold harmless 4D Systems from any and all damages, claims, suits, or expenses resulting from such use. No licenses are conveyed, implicitly or otherwise, under any 4D Systems intellectual property rights.

4. Contact Information

For Technical Support: support@4dsystems.com.au

For Sales Support: sales@4dsystems.com.au

Website: www.4dsystems.com.au

Copyright 4D Systems Pty. Ltd. 2000-2012.