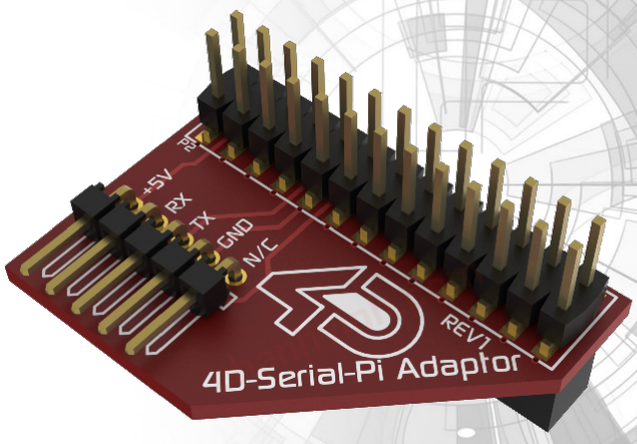
chanhvinh.com

4D Serial Pi Adaptor



Datasheet

Revision 1.3

Copyright © 2024 4D Systems

Content may change at any time. Please refer to the resource centre for latest documentation.

Contents

1. Description 3

2. Specifications 5

3. Legal Notice 6

3.1. Proprietary Information 6

3.2. Disclaimer of Warranties & Limitations of Liabilities 6

chanhvinh.com

1. Description

The 4D 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 Pi Serial Adaptor is included in various 4D Systems 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 -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. Please ensure the Raspberry Pi is powered with a suitably powered 5V power pack.

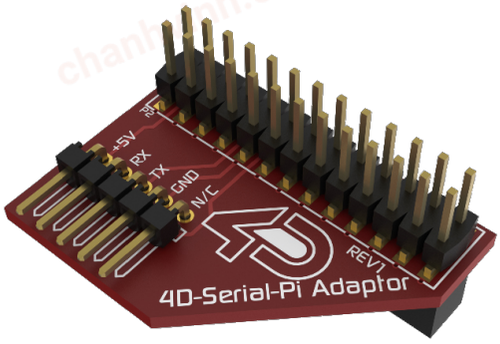
The 4D Serial Pi Adaptor is compatible with versions A, B and B+ Raspberry Pi's.

The 4D Serial Pi Adaptor is compatible with essentially all 4D Systems Intelligent Displays, primarily the following:

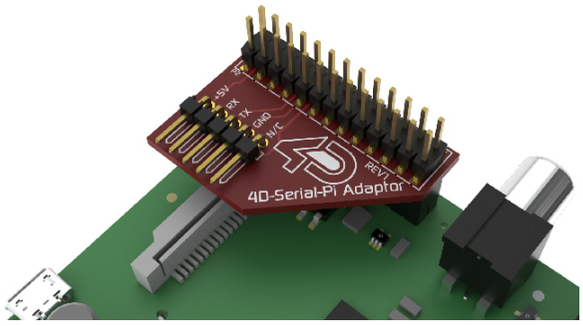
- uLCD-24PT
- uLCD-28PT
- uLCD-32PT
- uOLED-96-G1/G2
- uOLED-128-G1/G2
- uOLED-160-G1/G2
- uLCD-144-G1/G2
- uLCD-43 (All versions)
- uLCD-24-PTU
- uLCD-28-PTU
- uLCD-32-PTU
- uLCD-32W-PTU
- uLCD-35DT
- uLCD-70DT
- uLCD-220RD

gen4-uLCD Series are also compatible using gen4-IB

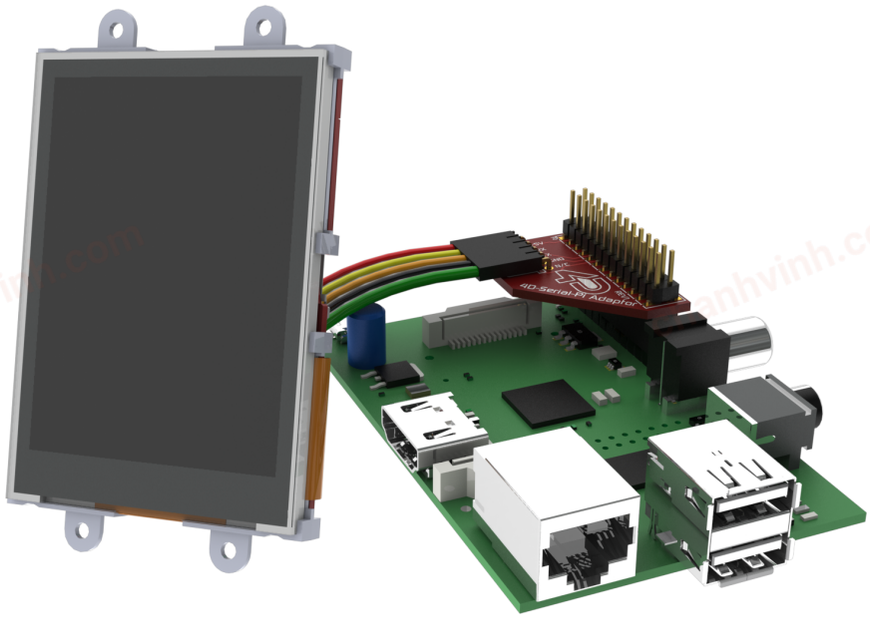
The 4D Raspberry Pi Library is available to download from the 4D Systems GitHub.



4D Pi Serial Adaptor



4D Pi Serial Adaptor attached to a Raspberry Pi



4D Pi Display Module Pack

(4D Pi Serial Adaptor is one part of this pack)

Note

Raspberry Pi remains the property of the Raspberry Pi Foundation. All references to the words 'Raspberry Pi' are Trademarks of the Raspberry Pi Foundation, and all references to 4D Systems modules/adaptors with the Raspberry Pi are based on compatibility with the Raspberry Pi Hardware and do not indicate ownership of or to the Raspberry Pi in any way.

chanhvinh.com

2. Specifications

Recommended Operating Conditions

Parameter	Conditions	Min	Typ	Max	Uni
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 3.3V also but 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

chanhvinh.com

3. Legal Notice

3.1. 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 makes changes to Specifications or written material without prior notice at any time.

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

3.2. Disclaimer of Warranties & Limitations of Liabilities

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.