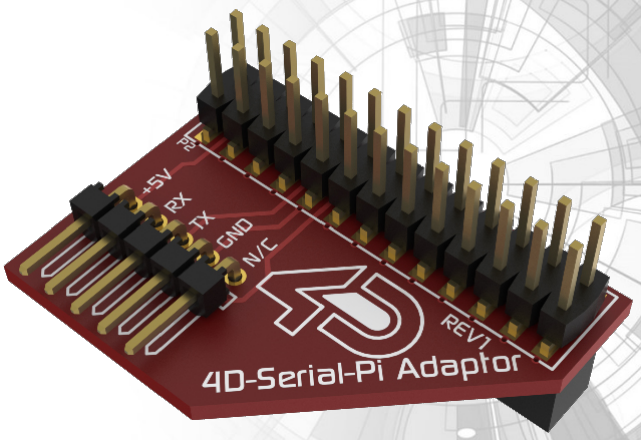
4D Serial Pi Adaptor



Datasheet

Revision 1.3

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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.

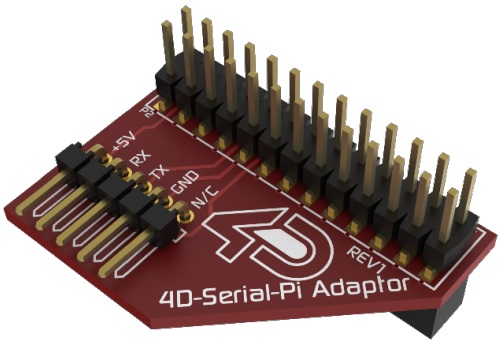
The 4D Serial Pi Adaptor is compatible with versions A, B and B+ Raspberry Pi's.

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.



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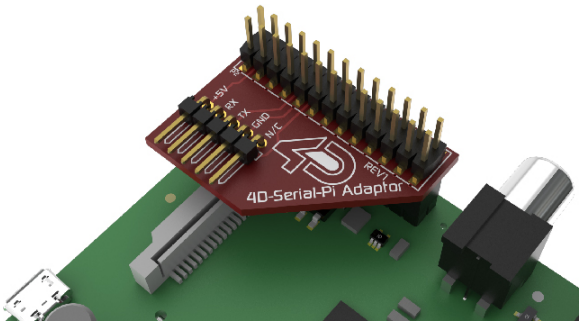
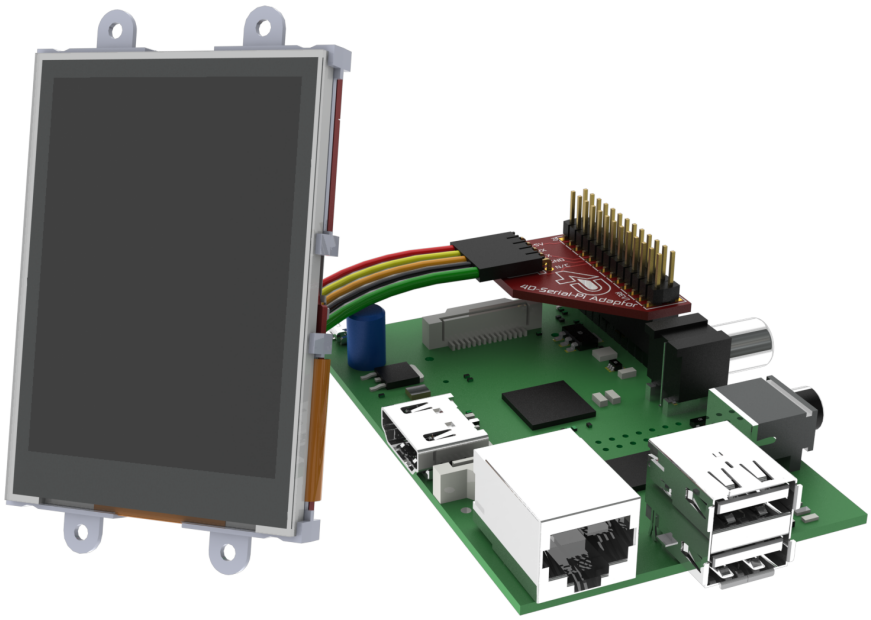


4D Pi Serial Adaptor attached to a Raspberry Pi



4D Pi Display Module Pack

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

Note

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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

3. Legal Notice

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