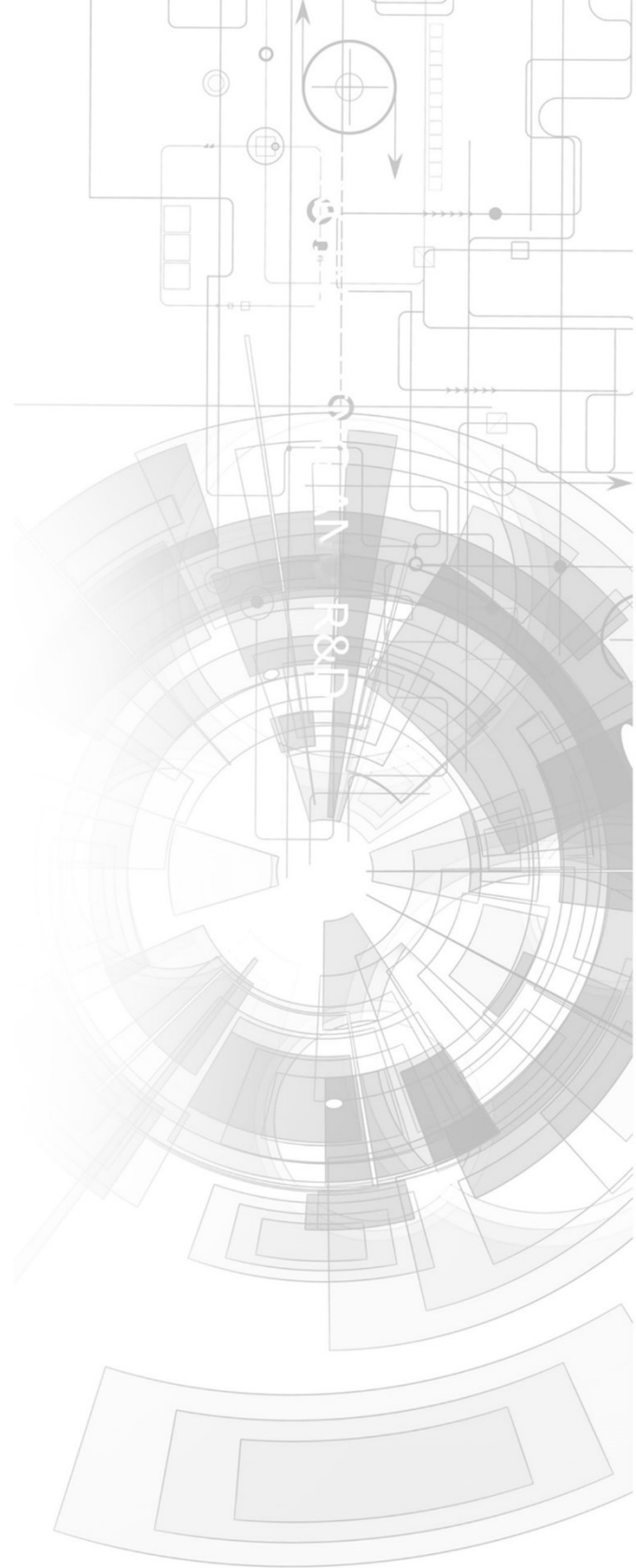


# gen4-IB



## Datasheet

Revision 1.3

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## 1. Description

This datasheet covers the gen4-IB (Interface board) which is compatible with all of the gen4 range of Intelligent Display modules which feature PICASO or DIABLO-16 graphics processors, along with the pixxiLCD range of display modules too. It is included with every display module, and is a quick and easy way to interface to the gen4 range, without having to break out the signals from the 30-way FFC cable.

The gen4-IB is a simple interface that converts the 30-way FFC cable coming from your gen4 display module, into the common 5 signals used for programming and interfacing to 4D Systems products. The remaining signals from the display module are not accessible through this interface board. Please refer to the gen4-PA (Programming Adaptor) or UPA (Universal Programming Adaptor) which are USB programmers for the display modules, and also breaks out all of the signals from the display.

If you have existing 4D Products and have a uUSB-PA5 or uUSB-PA5-II, or even a 4D Programming Cable, then you can use these programming devices via the gen4-IB to program the display modules directly, without the need of a gen4-PA board.

The gen4-IB can be used to interface with 4D Programming devices, as mentioned above, for interfacing to a breadboard for prototyping, interfacing to Arduino and Raspberry Pi interfaces (see gen4 -AR and -PI kits), or for interfacing to virtually any host.

The gen4-IB has no processor, requires no drivers or any software. It is a simple interface only, converting the signals from the 30-way FFC cable from the display module, and breaking out the 5 important signals required for programming and basic interfacing.

More information can be found inside the datasheet for the specific display module being used. Please refer to the [4D Systems website](#) and the product page of your chosen product, for more information.

The Standard FFC cable supplied has the following specifications:

30 Pin Flexible Flat Cable, 150mm Long, 0.5mm (0.02") pitch

Cable Type: AWM 20624 80C 60V VW-1

Heat Resistance 80 Degrees Celsius

Connections on the opposite side at each end (Type B)

