1.2 Product description

Hardware manual

www.pinetek-networks.com

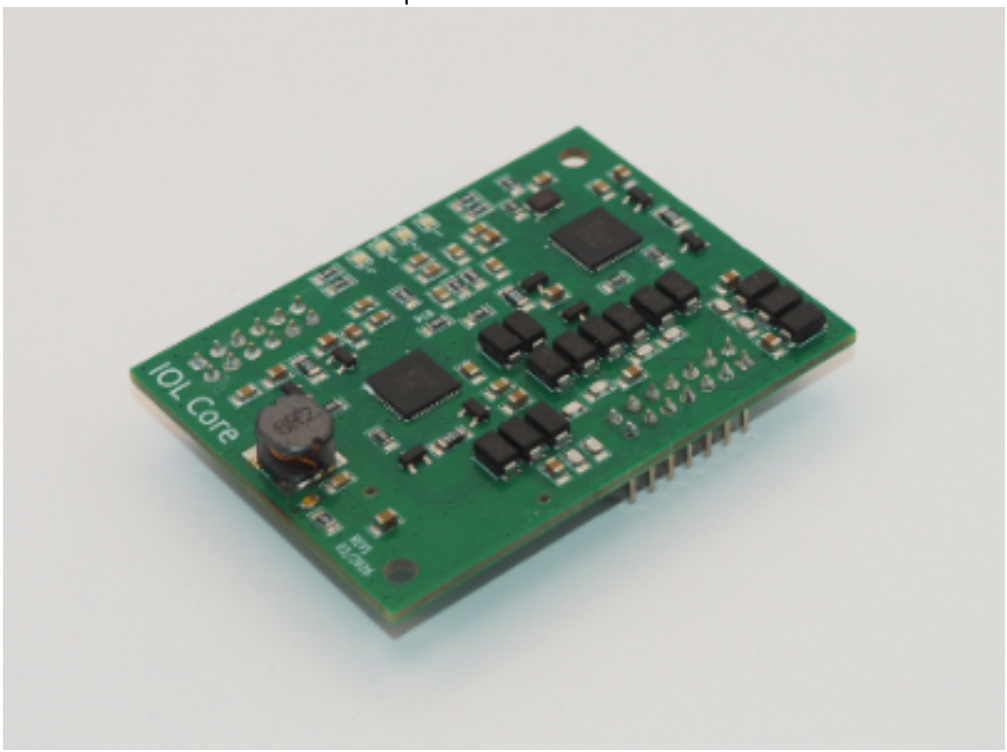


Table of Contents

1.2 Product description 5

1.2 Product description

The IOL HAT provides a hardware interface for the exchange of data with smart SDCI sensors and actuators (IEC 61131-9, brand name IO-Link®). The IOL HAT works as a plug-in module for Raspberry Pi®[1] using a 40-pin GPIO connector or via a generic interface with other single-board computers. It uses the Analog Devices/Maxim MAX 14819 Dual IO-Link Master Transceiver with Integrated Framers and L+ Supply Controllers.

Information on the MAX14819 can be obtained here:

- Product information: https://www.analog.com/en/products/max14819.html
- Datasheet: https://www.analog.com/media/en/technical-documentation/data-sheets/MAX14819.pdf

Two SDCI interfaces are available per IOL HAT, up to two IOL HATs can be connected to the Raspberry Pi via stack-through connectors.

A GPL-licensed sotware that is maintained by Pinetek Networks provides the software functions and is available for download. Please note that this software is not part of the scope of delivery of the IOL HAT, and the IOL HAT can be operated with other IO-Link stacks as well.

The IOL HAT is available in two versions:

- PT-1201 with Raspberry Pi specific 40-pin connector
- PT-1202 with a generic host connector

1)

Raspberry Pi is a trademark of Raspberry Pi Ltd: raspberrypi.com