1 Introduction

Hardware manual

www.pinetek-networks.com

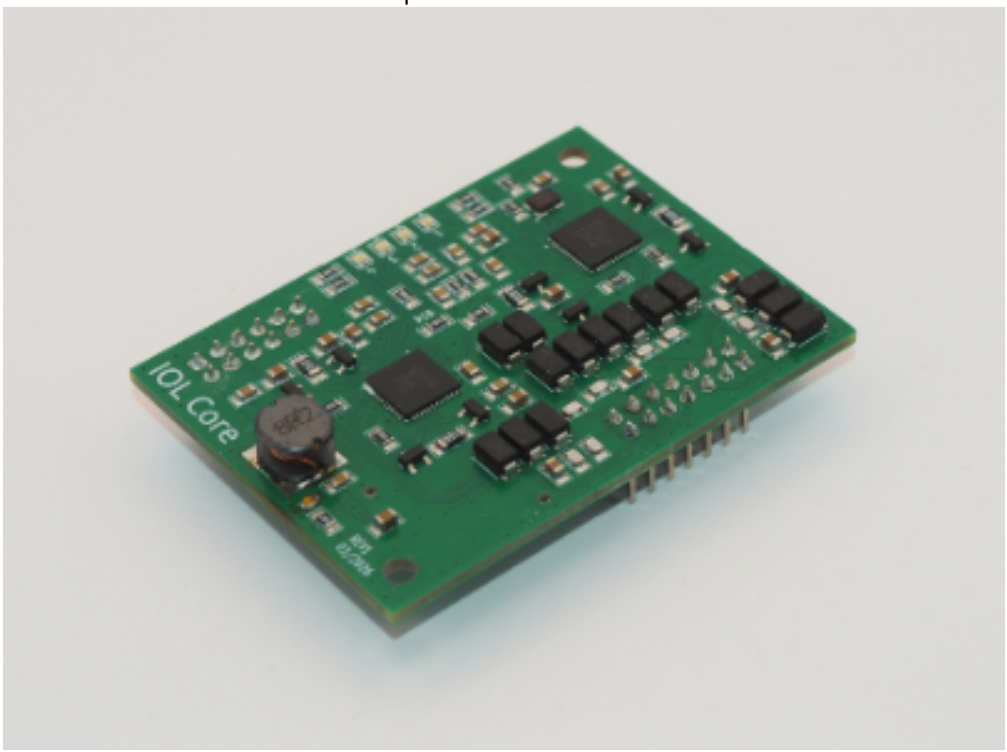


Table of Contents

1 Introduction

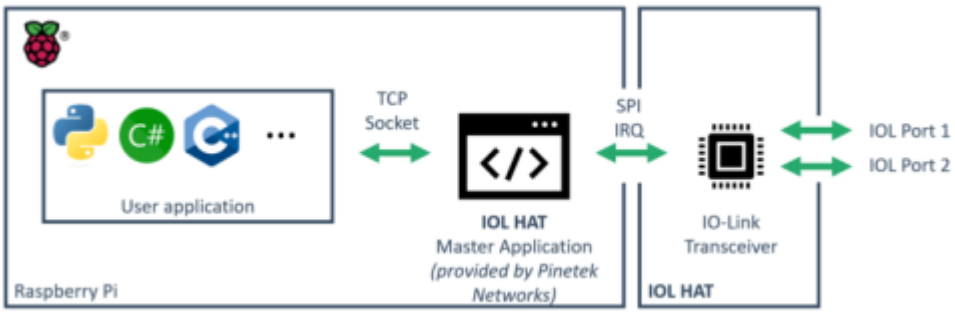
This section describes the methods and procedures that are used in connection with the open source software for the IOL HAT and IOL Core4 (without µC) (“IOL master application”) which is available in the Github repository: https://github.com/Pinetek-Networks/iol-hat

The software is based on the I-Link stack by RT-Labs. Please note that the software has been proven to work in different applications, however, it comes without guarantees of specific functions or functionality.

Information on how to obtain the software and how to build it for specific targets can be found in the GitHub. The following sections describe the application of the software on the Raspberry Pi or other Single Board Computers.

Theory of operation

The master application handles the raw communication to the MAX14819 transceiver on the IOL HAT or IOL HAT Pro over SPI and provides the stack routines to operate the IO-Link communication. The master application offers a TCP socket interface to the user application for easy integration. The master application and user application need to be run independently.



Hints and Warnings

The following signs will guide you for dedicated areas of interest. The content is relevant for safe operation of the IOL HAT in combination with the software.

This symbol is used to show information that is relevant for the operation of the IOL HAT

This symbol is used to show areas of special attention that need to be considered for the safe operation of the IOL HAT