SEGGER USB Hub

User manual of the SEGGER USB Hub

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Manual versions

This manual describes the current hardware version. If you find an error in the manual or a problem with the hardware, please report it to us and we will try to assist you as soon as possible.

Contact us for further information on topics or functions that are not yet documented.

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Manual version	Revision	Date	By	Description
1.00	0	230221	VK	Initial Version

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Chapter 1

Overview

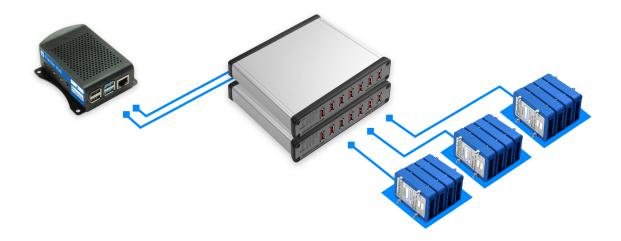The SEGGER USB Hub is a 7-port USB2.0 full speed USB hub designed to meet industrial standards in production environments.

Key features

- Upstream port isolation (basic isolation, 3 kV DC for 1 s)
- Single downstream port overload limit
- High retention USB-B upstream and USB-A downstream ports
- Screwable power supply plug (solid/stranded wire, section 0.2-3.3 mm^2)
- Power supply 8-30 VDC, reverse polarity protected

Chapter 2

Appropriate use

Gang programming

Gang programming is used to increase the throughput of a programming station. The SEG-GER USB Hub provides a tested USB Hub to simply expand the number of available USB ports to connect up to 24 Flasher Compacts with a Flasher Hub.

Chapter 3

Specifications

Item	Specification
Power supply	8-30 VDC, reverse polarity protected, max. 30 W [1]
Power supply connector	Wuerth (691317510002, WR-TBL 3175)
USB interface to host	USB 2.0 (Full-Speed), Type B
Upstream port isolation	Basic isolation, 3 kV DC for 1 s
USB interfaces to device	USB 2.0 (Full-Speed), Type A
Electromagnetic compatibility (EMC)	EN 61326-1, EN 55011, EN 55024/55035
Operating temperature	+ 5 °C … + 60 °C
Storage temperature	- 20 °C … + 65 °C
Relative humidity (non-condensing)	< 90 % rH
Size (without cables)	170 mm x 166 mm x 35 mm
Weight (without cables)	585 g

[1] Depends on current consumption of connected downstream devices. For maximum load the input supply must be 12 VDC or more.

Chapter 4

Safety considerations

The SEGGER USB Hub provides **basic isolation** only. **It is not for use with hazardous voltages without taking further protection measures to avoid risk of electrical shock and fire.**

The USB Hub provides basic isolation to withstand high voltages as mentioned in the resp. technical data section. To protect people when dealing with potential hazardous voltage it is mandatory to have a second protection measure in place in case the first insulation barrier fails. This is called double or reinforced isolation. How this double isolation is achieved depends on the use case or application setup.

Check the local safety directives for your country to make sure all requirements are met.