XinaBox Datasheet IP03 - SWD/JTAG/SPI/USB Interface

Overview

This xCHIP is an interface module and is equipped to interface with SWD (https://en.wikipedia.org/wiki/JTAG#Serial_Wire_Debug), JTAG (https://en.wikipedia.org/wiki/JTAG) and SPI (https://en.wikipedia.org/wiki/Serial_Peripheral_Interface_Bus) programmers to program other xCHIPs via ⊠PDI and ⊠BUS. Voltage regulation from USB power is provided by on-board AP2114 LDO, which features 1 A continuous current output, good output regulation accuracy and short circuit protection.

Product Highlights

- Multifunctional Programming Interface Headers
- SWD/JTAG/SPI Interface
- Facilitates Low and High Level Programming
- USB Data Throughput on ⊠PDI
- USB Power Supply

Specifications

AP2114

- Output Voltage Accuracy: ±1.5%
- Output Current: 1A
- Fold-back Short Current Protection: 50mA
- Low Quiescent Current: 60µA
- Low Output Noise: 30µV RMS
- OTSD Protection
- Operating Temperature Range: -40°C to 85°C

External Links

Datasheet

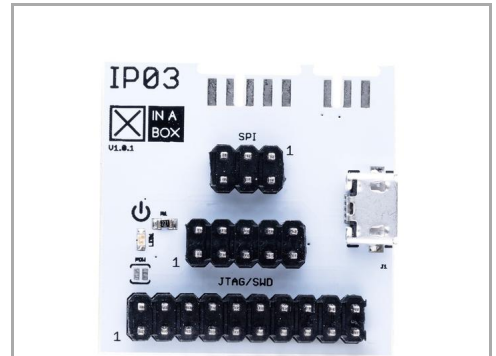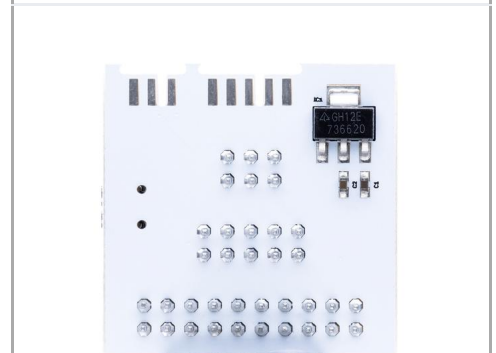- AP2114 From BCD Semiconductor Manufacturing Limited (https://www.diodes.com/assets/Datasheets/AP2114.pdf)

Shop

- Buy IP03 (https://xinabox.cc/products/IP03)

GitHub

- IP03 on GitHub (https://github.com/xinabox/IP03)

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⊠CHIP	
Main Category	Interface
Sub Category	Programmer
Introduced	1 January 2017
Current version	1.0.1
Current version date	1 January 2017
Dimensions	
Size	2x2U (32x32mm)
Weight	5.6 g
Height	11.3/8.0/1.6 mm
Non-⊠BUS Connections	
North	⊠BUS & ⊠PDI
East	USB Micro B
Main Chip Set	
Main Chip	AP2114