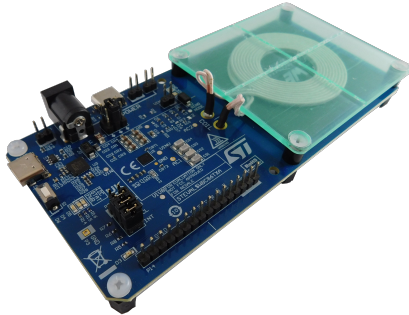


Qi-compatible wireless power transmitter evaluation board for 5 W application based on STWBC86



Features

- Up to 5 W output power transfer
- Power Tx design A-11a topology
- Wide input Operating range 5 V to 20 V
- Integrated drivers and high efficiency Full bridge inverter
- 32-bit, 64 MHz ARM Cortex M0+ core with 8 kB SRAM and 48kB ROM
- I²C interface
- FTP for Firmware patching and advanced features
- On-chip thermal management and protections

Description

The **STEVAL-WBC86TX** evaluation board, based on STWBC86, is designed for wireless power transmitter application, and allows its user quickly start their 5W Qi-BPP designed for wireless power transmitter applications, compatible wireless charging transmitter projects.

Through the I²C interface the user can access and modify different configuration parameters, tailoring the operation of the device to the needs of custom applications.

Using an on-board USB-to-I²C bridge, the user can monitor and control the **STWBC86** using the **STSW-WPSTUDIO** graphical user interface (GUI).

Product summary	
Qi-compatible wireless power transmitter evaluation board for 5W applications	STEVAL-WBC86TX
Qi-compatible inductive wireless charger power transmitter for up to 5W applications	STWBC86JR
Firmware for wireless power transmitter evaluation board	STSW-WBC86FWBPP
Graphical user interface for wireless power receiver and transmitter evaluation boards	STSW-WPSTUDIO
Applications	Wireless chargers

Figure 3. STEVAL-WBC86TX circuit schematic (2 of 4)

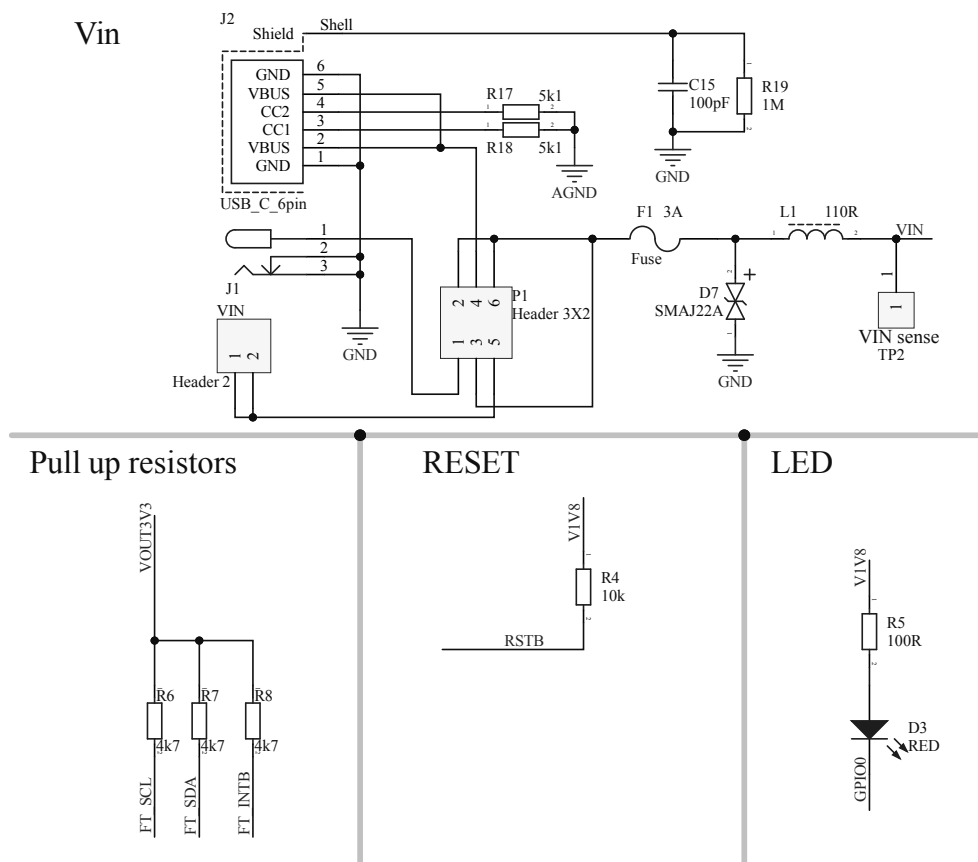


Figure 4. STEVAL-WBC86TX circuit schematic (3 of 4)

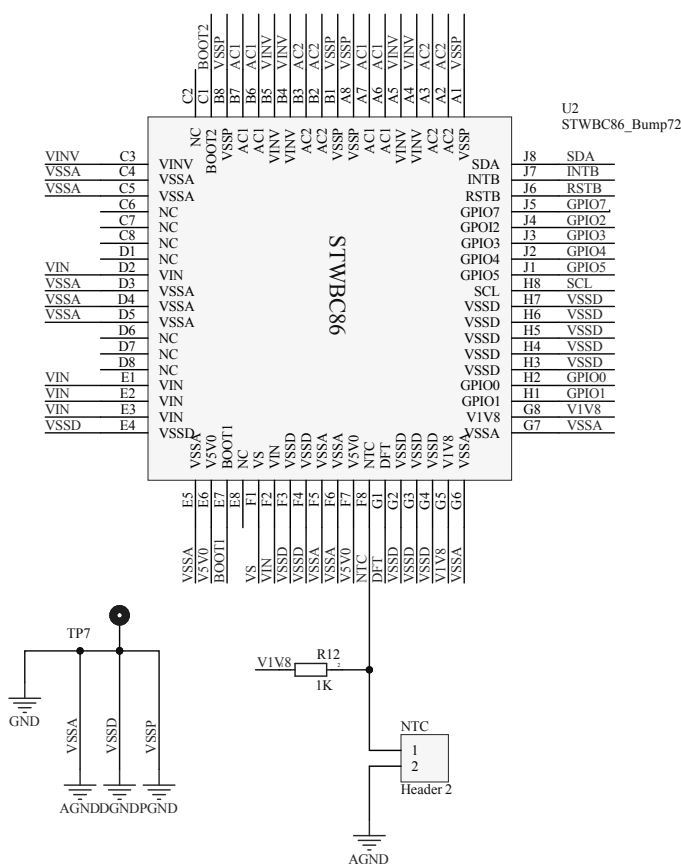
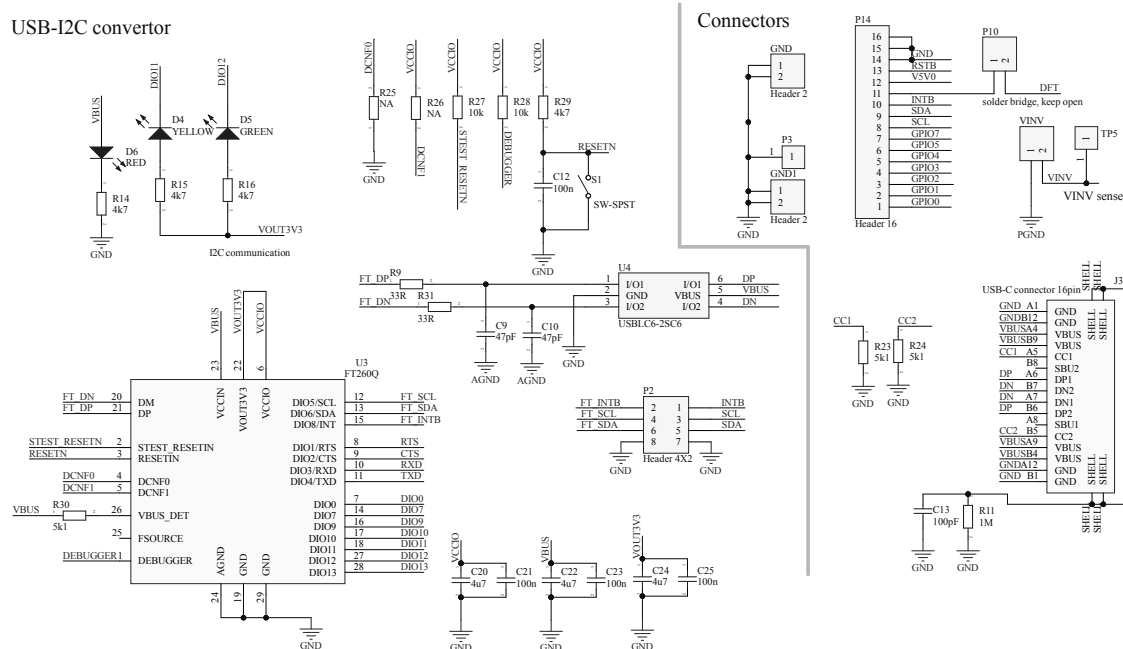


Figure 5. STEVAL-WBC86TX circuit schematic (4 of 4)



Revision history

Table 1. Document revision history

Date	Version	Changes
20-Jul-2023	1	Initial release.

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