

WPR1500HVWCRRN

WPR1500-HV Wireless Charging Receiver Release Notes

Rev. 3.0 — 4 July 2022

Release Notes

1 Overview

WPR1500-HV Receiver Version 3.0 provides the EPP (15W) receiver solution by using the NXP WPR1516 chip and the WPR1516 EPP receiver reference board.

It is compliant with the WPC 1.2.4 specification.

2 Abbreviations

The following table provides the abbreviation descriptions in this document.

Table 1. Abbreviations

Abbreviation	Description
WPR	Wireless Power Receiver
DC	Direct Current
RX	Receiver
TX	Transmitter
ASK	Amplitude-Shift Keying
FSK	Frequency-Shift Keying
FOD	Foreign Object Detection

3 Supported HW SoC/Board

WPR1500-HV Rev. C board

(SCH-34763_C, LAY-34763_C)

4 What is in This Release

- Software package:
 - WPR1500-HV_V3.0

Application example code in the source format, the Wireless Power Receiver (WPR) library in the binary format

- Documentation:
 - *WPR1500-HV Wireless Charging Receiver Application User's Guide* (WPR1500HVWCRAUG)
 - *Wireless Power Receiver SW Library User's Guide* (WPRSWLIBUG)
 - *WPR1500-HV Wireless Charging Receiver Release Notes* (WPR1500HVWCRRN)

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5 Features

The WPR1500-HV Receiver reference board has the following features:

- Compliant with the EPP Wireless Power Consortium (WPC) Qi Version 1.2.4 specification.
- Supports FSK communication signals from the EPP Transmitter.
- FreeMASTER tool to enable customization and calibration.
- Support Foreign Object Detection (FOD).
- Input voltage (3.5 V – 20 V AC peak) from the Transmitter via Receiver Coil.
- Output power 15 W (12V@1.25A) capability. Can be extended to support 30 W output.
- Hardware protection of rectifier voltage, output voltage, and output current.

6 What's New in This Release

- Initial release.

7 Known Issues

- Need to add external heat dissipation material or cooling fan with 15 W or higher power level.

8 Revision History

Table 2. Revision history

Revision number	Date	Substantive changes
GA 3.0	07/2022	Initial release.

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Date of release: 4 July 2022

Document identifier: WPR1500HWCRRN