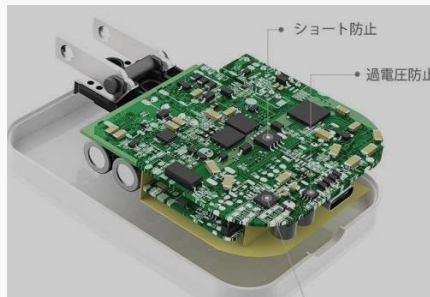


## RAVPOWER RP-PC104 WALL ADAPTER ANALYSIS REPORT

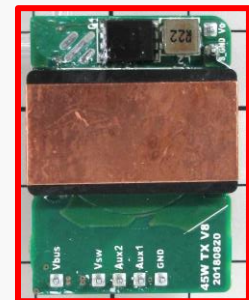
**February 2020.** LTEC Corporation released a detailed analysis report of the RAVPOWER's PC104. This is the fast charger using 'GaN' power IC. The product delivers 45W output power despite its small size.



Outer appearance



PCB (Bottom view)



Transformer  
board

### Product outline

- Output power: 45W (20V, 2.25A)
- Size: 80mm x 55mm x 15mm
- Weight: 80g
- USB Type-C port x1

### Basic features

- The module consists of two PCBs, a main PCB & a transformer PCB.
- The transformer is formed by six-layer PCB patterns.
- Circuit features:
  - Active clamp
  - Synchronous rectification
- Two GaN Power ICs (Navitas NV6115)
- USB port for power delivery

### Report contents

- The 36-page report includes details of the teardown including PCB layout, BOM, circuit schematic diagram, and functional block diagram.

Note: The report price may change over time. For current price contact [info@ltecusa.com](mailto:info@ltecusa.com).

19G-0002-1

# Table of Contents

Product information	3
Analysis summary	4
Teardown	8
PCB layout details	18
Components position	20
Components details	24
PCB interface connector details	27
Sensor	29
Function block identification and block diagram	30
BOM	32

