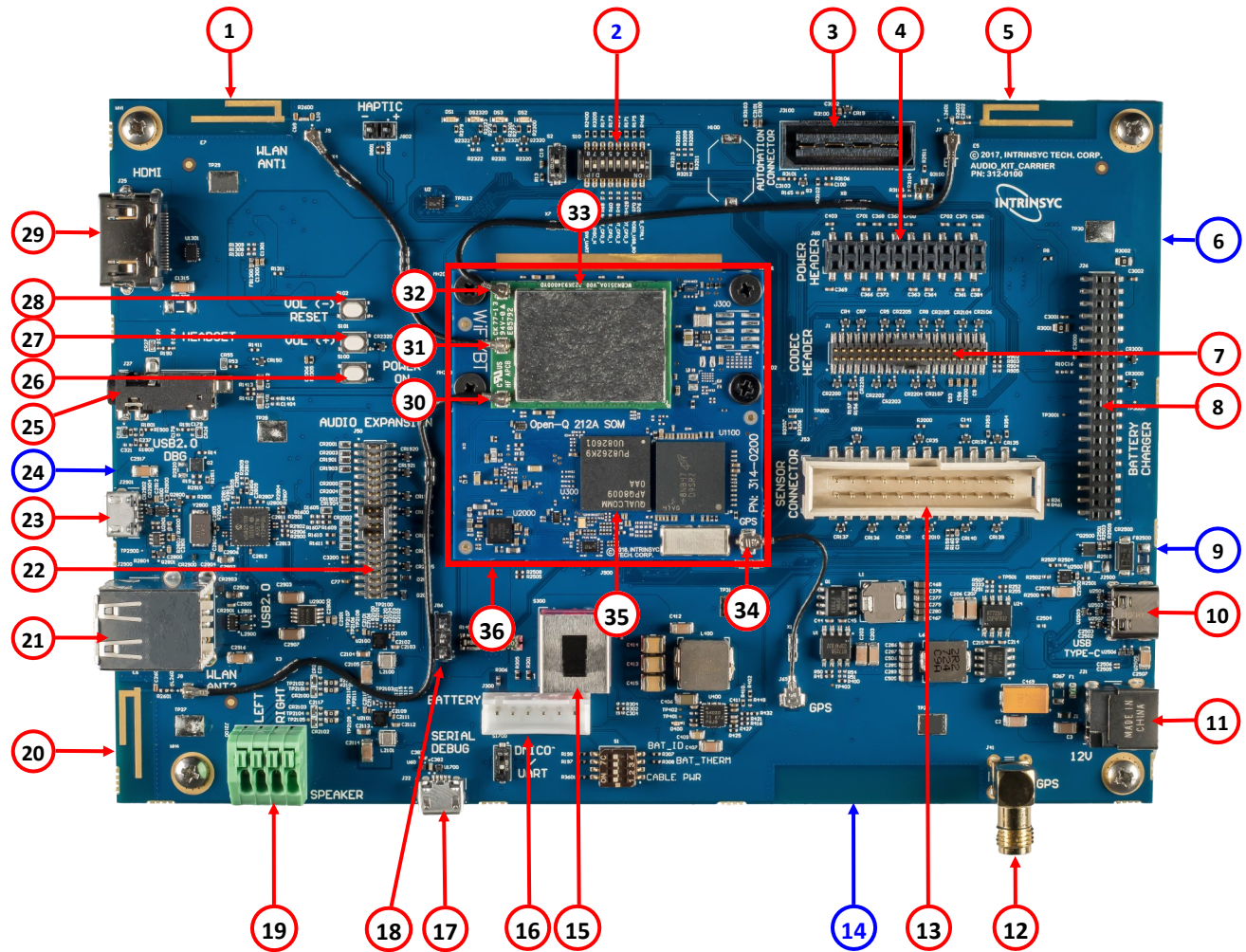


## Package Contents

1. Open-Q™ 212A SOM with APQ8009 SoC
2. Open-Q™ 212A Carrier Board
3. AC Power Adapter
4. Camera Adaptor Board (Optional Accessory)

- |   |  |
|---|--|
| 1. WLAN Antenna 1 (PCB Trace)                   | 22. Audio Expansion Header             |
| 2. Configuration DIP switches                   | 23. Micro-USB port                     |
| 3. Automation Header                            | 24. MIPI-DSI LCD/Display Connector*    |
| 4. Power header                                 | 25. Headset Connector                  |
| 5. BT Antenna (PCB trace)                       | 26. Power Button                       |
| 6. MIPI-CSI Camera 0 Connector*                 | 27. Volume + button                    |
| 7. Digital Audio Codec header                   | 28. Volume - button                    |
| 8. Battery Charging header                      | 29. HDMI Connector                     |
| 9. MIPI-CSI Camera 1 Connector* (not supported) | 30. Wi-Fi U.FL Antenna 1 Connector     |
| 10. USB Type-C Connector (not supported)        | 31. Wi-Fi U.FL Antenna 0 Connector     |
| 11. 12V DC Power jack                           | 32. BT U.FL Antenna Connector          |
| 12. GPS External Antenna Connector              | 33. WLAN/BT Module                     |
| 13. Accessory header (sensors, etc.)            | 34. GPS U.FL Antenna Connector         |
| 14. GPS PCB Antenna*                            | 35. APQ8009 CPU                        |
| 15. Power Source Switch (Batt/DC)               | 36. Open-Q 212A System on Module (SOM) |
| 16. Battery connector                           |  |
| 17. USB Debug UART Micro B                      |  |
| 18. SOM Power Probe header                      |  |
| 19. Speaker Connector                           |  |
| 20. WLAN Antenna 2 (PCB Trace)                  |  |
| 21. USB Type-A Dual Stack Host                  |  |
- \* ON BOTTOM SIDE



Specifications are subject to change - 895-0027-00 Rev A

Your use of this document is subject to and governed by those terms and conditions, <https://www.intrinsyc.com/legal-terms/qualcomm-terms.html>, in the Intrinsic Purchase and Software License Agreement for the Open-Q™ 212A Development Kit based on the Qualcomm® APQ8009, which you or the legal entity you represent, as the case may be, accepted and agreed to when purchasing an Open-Q™ 212A Development Kit from Intrinsic Technologies Corporation ("Agreement"). You may use this document, which shall be considered part of the defined term "Documentation" for purposes of the Agreement, solely in support of your permitted use of the Open-Q™ 212A Development Kit under the Agreement. Distribution of this document is strictly prohibited without the express written permission of Intrinsic Technologies Corporation and its respective licensors, which they can withhold, condition or delay in its sole discretion.

Lantronix is a registered trademark of Lantronix, Inc. in the United States and other countries. Intrinsic is a trademark of Intrinsic Technologies Corporation, registered in Canada and other countries. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. Other product and brand names used herein may be trademarks or registered trademarks of their respective owners. Qualcomm APQ8009 is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.

## Development Kit Setup

**1. At a static-safe workstation, remove the development kit board carefully from the anti static bag.**

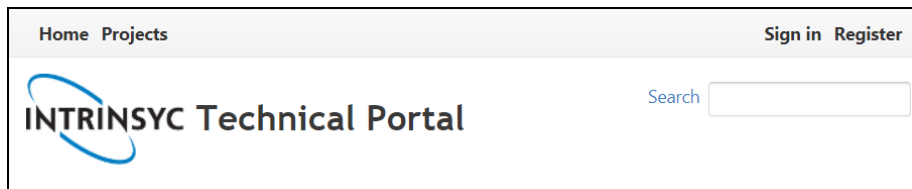
**2. Connect the serial debug USB (17) to your favorite terminal program if you wish to see boot messages (FTDI UART — USB bridge driver required on PC).**

**2. Connect the Power Adapter to the 12V DC Jack (11) and then press and hold the POWER ON button (26) for a few seconds until the blue LED starts blinking to indicate the board is booting up.**

### **3. Documentation and software**

To access the documentation (schematics, user guides, datasheets, programming guides, tech notes...), platform BSP software and much more, please register at:

<http://tech.intrinsyc.com>



## Development Kit Support

Should you require more information or assistance, you can contact us at:

<https://helpdesk.intrinsyc.com>

Intrinsyc also provides technical information and videos on Qualcomm processors at:

<https://www.intrinsyc.com/resources>

Should you require additional technical support for your Development Kit you can easily purchase a technical support package from the Intrinsyc store:

<http://shop.intrinsyc.com/collections/technical-support-packages>

Thank you for purchasing the Open-Q 212A Development Kit