

## Open-Q<sup>™</sup> 820Pro µSOM **Development Kit Quick Start Guide**

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# Qualcom

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#### **Package Contents**

- Open-Q<sup>™</sup> 820Pro µSOM with Qualcomm<sup>®</sup> APQ8096SG SoC
- 2. Carrier board
- 3. AC Power Adapter
- 4. 4.5" FWVGA MIPI DSI LCD/touchscreen (additional accessory)
- 1. IO Expansion header EDU
- 2. Mini PCI Express socket \*
- 3. Power button
- Volume + button 4
- 5. Volume - button
- 3 x LEDs 6.
- 7. WWAN SIM card slot \*
- 8. PCI Express slot
- 9. Sensors header
- 10. 12V DC jack
- 11. USB debug UART Micro B
- 12. USB 3.0 Expansion connector
- 13. USB 2.0 OTG Micro AB
- 14. Dual stacked USB 3.0 type A
- 15. Battery connector
- 16. HDMI out
- 17. General purpose button
- 18. Power header
- 19. ANC 3.5 mm headset jack
- 20. GPS ext. ant. SMA connector
- 21. Boot configuration DIP switches
- 22. MIPI camera 2 connector
- 23. Micro SD slot \*

- 25. Open-Q 820Pro µSOM
- 26. GPS module WGR7640
- 27. 32GB UFS
- 28. 3GB LPDDR4 SDRAM PoP memory on top of APQ8096SG
- 29. WLAN module QCA6174
- 30. MIPI camera 0 connector
- 31. Audio out header
- 32. SOM power measurement header
- 33. Audio in header
- 34. Haptics output header
- 35. MIPI DSI LCD/touchscreen connector to interface with Intrinsyc display adapter







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24. MIPI camera 1 connector



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### **Development Kit Setup**

1. Remove the development kit board carefully from the anti static bag

2. Connect the HDMI cable from the development kit to a display

3. Connect the Power Adapter to the development kit then press once the power button (S100), after approximately 30 seconds the board will boot automatically

#### 4. 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

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For more information or assistance, you can contact us at:

https://www.helpdesk.intrinsyc.com

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

http://www.intrinsyc.com/resources

Should you require additional technical support for your Development Kit you can purchase a block of technical support hours from the Intrinsyc store:

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

Thank you for purchasing the Open-Q 820Pro  $\mu$ SOM Development Kit

#### **Development Kit Support**