

SNAPDRAGON® XR2 GEN 2 REFERENCE DESIGN

Snapdragon



Snapdragon QXR2230P is used as a reference design based on the Snapdragon® XR2 Gen 2 SoC along with SW development and testing to help support customers in building their next generation VR/MR HMD.

The Snapdragon QXR2230P device is a form factor accurate reference design powered by the SXR2230P. This head-mounted device is engineered to help customers jump-start their next-generation VR HMD design and software development with early access to the latest technology and features from Qualcomm Technologies, Inc. Comprehensive reference design documents are available to Qualcomm Technologies customers, including schematic, PCB layout and key performance indicators. To learn more, please refer to the QXR2230P Hardware Overview document (80-36372-130).

Kit Contents

- QXR2230P HMD
- Cleaning cloth
- AC Adapter w/ USB Type-C cable
- Quick user guide

Software and Testing

- Quick load software available on Createpoint once proper licensing is in place (requires no software compiling)
- Updated Test and Tools Agreement (TTA) required for enablement

To learn more visit: [qualcomm.com](https://www.qualcomm.com)

SPECIFICATIONS AND FEATURES

Key Features

- Stand Alone VR Platform
- 2.56 x 2.56 K Dual Panel microOLED
- Pancake lens with myopia adjustment
- Room scale 6 DoF head tracking
- Hand tracking
- Eye tracking
- Video See Through
- Split Rendering
- 6 DoF Controller

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SXR2230P, WCN7851, WCD9385, WSA8835, PMK2230, PMXR2230, PMXR2230VS, PMXR2230VE, PM8010, SMB1393 and more

Connectivity

- 2x2 Wi-Fi 802.11 a/b/g/n/ac/ax
- Bluetooth® 5.3+LE

Image and Context Sensors

- 6 DoF Tracking cameras (4x OV7251)
- RGB camera (2x S5KJD1SP13)
- Eye Tracking cameras (2x OC0TA1B)
- Accelerometer+Gyro
- Magnetometer
- Proximity sensor
- PPG sensor

Battery and Charging

- USB Type-C 3.1 Gen 2
- 6000mAh

Display and Optics

- Dual 1.03" uOLED displays 2560x2560
- Pancake lens
- Adjustable IPD and Diopter

Audio

- 4x speakers (2x woofers, 2 tweeters)
- 6x DMic

SNAPDRAGON QXR2230P REFERENCE DESIGN



Height x width x depth:
71.8 x 165.4 x 263.7mm