

HARDWARE REFERENCE GUIDE

The K200 Open Development Kit is expanded upon the QCS605 System on Module. Some key components of Kit are described in the following table:

Key component	Name	Details
Processor	Qualcomm QCS605	Qualcomm Kryo 300 CPU Qualcomm Adreno 615 GPU Qualcomm Hexagon 685 DSP Qualcomm Spectral 270 ISP
SDRAM memory	Samsung K4U6E3S4AM	2 GB LPDDR4x
eMMC FLASH memory	Samsung KLMAG1JETD-B041	16 GB NAND FLASH
WLAN/Bluetooth chipset	WCN3990	2.4 GHz/5 GHz 2x2 MIMO 802.11a/b/g/n/ac
DSI to HDMI bridge	Lontium LT9611UCX	4k at 60 Hz HDMI support with I2S audio
USB to LAN	LAN7800	USB 3.0 to 1 GB Ethernet controller
Audio amplifiers x2	Support 2x WSA881x connected to the board	
Onboard digital microphone	Support 4x Digital	

	Microphones connected to the board	
USB connector	USB Type C	USB Type C 3.1
HDMI	HDMI Type D	up to 4k at 60 Hz with audio
Power	DC power input PoE 802.3af/at	12V from wall supply PoE 802.3af/at
Micro SD card	Micro SD card	Micro SD card tray
Antenna	Antenna 0 Antenna 1 Antenna GPS	2.4/5 GHz printed antenna 2.4/5 GHz printed antenna Active GPS Antenna
Debug UART	Expand Header	Connect with FTDI USB to UART converter
Ethernet	RJ45 Ethernet connector	Ethernet through USB 3.0 (1 GB)
LEDs	1 - Power LED 2 - Ethernet LED	Green
Push button switches	One Button	Reset/On/Off