

## Operational Description

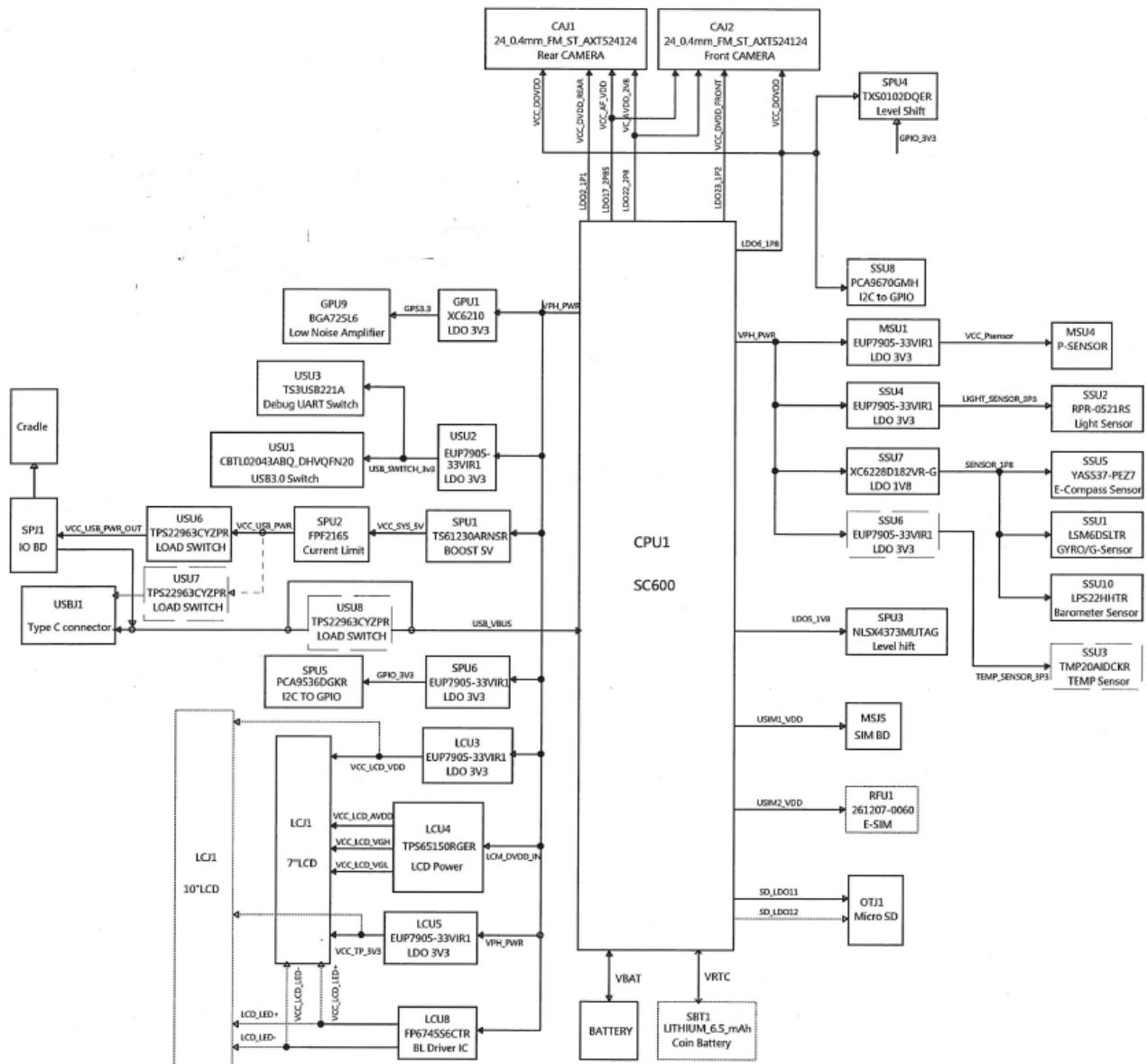
CPU it have a Octa-core ARM Cortex-A53 64-bit CPU @ 1.8GHz (standard) processor integrated, GPU, AdrenoTM 506 with 64-bit addressing, designed for 600MHz

It needs an 48MHz crystal of reference frequency, this crystal also used for RF module. This chip is responsible to control RF-Baseband Transceiver.

The product integrated a BT/WIFI/WCDMA/LTE/ GNSS module, which is based on Qualcomm SDM450 1.8GHz chipset that provides full function of IEEE 802.11a/b/g/n/ac standard protocols. The maximum data rate is up to 433Mbps. The module is designed as single antenna for Wi-Fi and Bluetooth. The modulation type is DSSS, CCK, DQPSK, DBPSK, OFDM, BPSK, QPSK,16QAM,64QAM,256QAM for WiFi; GFSK,  $\pi/4$ -QPSK;8DPSK for Bluetooth. WiFi operating frequency is 2.412-2.462GHz, 5.15-5.85GHz ; Bluetooth operating frequency is 2.402-2.480GHz. Wi-Fi supports 2.4GHz and 5GHz dual-band .

It does not support any non-US channels in all the operational mode(s) and all non-US frequencies and country code selection are disabled through proprietary software and user cannot modify. It also can NOT be activated by users of the product by any means.

FCC ID: P4Q-N635RN  
 IC: 2420C-N635RN



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The below are specification of this product

<b>Product name</b>	Chiro Pro
<b>Model Number</b>	N635RN
<b>EUT Functions</b>	IEEE 802.11a/b/g/n/ac+BT+GPS+WCDMA+LTE
<b>EUT Power Rating</b>	Powered from AC Adapter or EUT or Cradle I/P: 100-240Vac, 50/60Hz, 0.3A O/P: Vdc,5V 2.0A (Type C) I/P:12 V 1A,24V 0.5A(Fleet cable), Vdc,5V 2.0A(Micro USB)
<b>Frequency Range</b>	2412 ~ 2462 MHz for 2.4G WIFI, 5180 ~ 5850 MHz for 5G WIFI, 2402 ~ 2480 for BT. 1850-1990MHz,1710-2155MHz,824-894MHz for WCDMA, 617-894MHz,1710-1995MHz,2110-2690MHz for LTE
<b>Number of Channels</b>	IEEE 802.11b/g mode: 11 Channels IEEE 802.11n HT 20 MHz mode: 11 Channels IEEE 802.11n HT 40 MHz mode : 7 Channels IEEE 802.11 a:13 Channels IEEE 802.11 n20: 13 Channel IEEE 802.11 n40: 10 Channel IEEE 802.11n_5G(20MHz):13 Channels IEEE 802.11n_5G(40MHz):10 Channels IEEE 802.11ac_(80MHz): 6 Channels Bluetooth: 79 Channels WCDMA: Band 2,Band 4,Band 5 LTE: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B66/B71 LTE TDD:B41
<b>Modulation Type</b>	WCDMA: QPSK LTE:QPSK,16QAM,64QAM IEEE 802.11a mode: OFDM IEEE 802.11n HT 20 MHz mode: OFDM modulation type: DSSS,CCK,DQPSK,DBPSK,OFDM,BPSK,QPSK,16QAM,64QAM,256QAM Bluetooth: GFSK, $\pi/4$ -QPSK;8DPSK