

VVDN-QLCM-410/610EVK

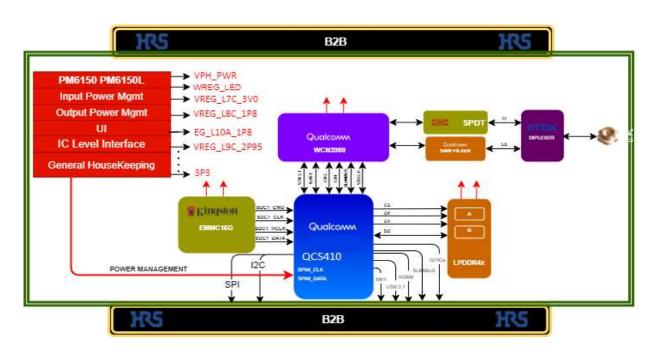


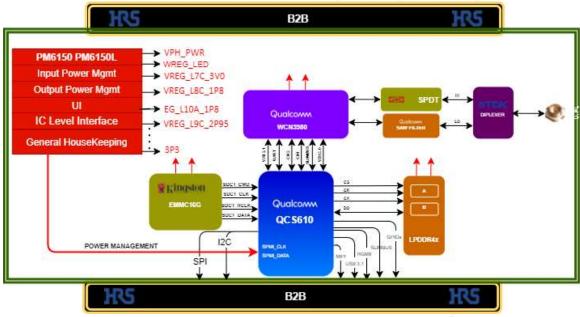
SOM Board

Carrier Board

- VVDN-QCS-EVK board supports following SOM modules,
 - 1. QCS 410 SOM
 - 2. QCS 610 SOM
- The major difference between the two SOMs are that it uses two different Qualcomm processors i.e QCS 410 and QCS 610. And compared to QCS410, QCS610 is having more processing power.
- Although the processors used are different, other chipsets/subsystems used in the SOM are same.
 - 1. PMIC- PM6150 & PM6150L for power management
 - 2. 16GB eMMC for storage.
 - 3. Qualcomm WCN3980 for Wi-Fi & Bluetooth
 - 4. 4GB LPDDR4x as Memory

QCS 410/610 SOM BLOCK DIAGRAM





QCS 410 SOM

QCS 610 SOM

 The major difference is on Qualcomm Processor chipset.

Comparison between QCS 410 and QCS 610 Processor based SOM Technical Specifications

QCS 410 SOM	QCS 610 SOM
Processor Qualcomm QCS410	Processor Qualcomm QCS610
 Processor-Kryo Gold: Dual high-performance cores up to 2.2 GHz, Kryo Silver: Dual low-power cores up to 1.8 GHz 	 Processor-Kryo Gold: Dual high-performance cores up to 2.2 GHz, Kryo Silver: Hexa low-power cores up to 1.8 GHz
It supports Multi-format codec up to 1080p90 video encode. Multi-stream codec (1080p30 (H.264)+ 1080p30 (YUV) + 480P (VA -YUV))	It supports Multi-format codec up to 4K30 video encode. Multi-stream codec (4K30 (HEVC) + 720p30 (YUV) + 480p30 (VA -YUV))
 All other blocks in the QCS410/610 processor are same and both are pin to pin compatible 	All other blocks in the QCS410/610 processor are same and both are pin to pin compatible
 PM6150 - Qualcomm PMIC PM6150L - Qualcomm master PMIC 	 PM6150 - Qualcomm PMIC PM6150L - Qualcomm master PMIC
4GB LPDDR4X Memory	4GB LPDDR4X Memory
Kingston memory- B3221XC5GDGUKR	Samsung memory-K4UBE3D4AA-MGCL
16GB eMMC - Kingston	16GB eMMC - Kingston
Wi-Fi 2.4GHz/5GHz - Qualcomm WCN3980	Wi-Fi 2.4GHz/5GHz - Qualcomm WCN3980
Bluetooth - Qualcomm WCN3980	Bluetooth - Qualcomm WCN3980

Compactibility



QCS 410 SOM



QCS 610 SOM



 Both 410 and 610 processor based SOMs are compactible with this carrier board

Carrier Board



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