Qualcom[®] SA8155P Cockpit SOC - Building Blocks

Booth 310

tures

Technology IP Leadership Leading 7nm FINFET Low power	Linux/Android/QNX BSP, Drivers, Linux Kernel, Android Middleware Auto Extensions, Early Service				Software Integration System Level Performance Optimization Platform integration
HW thermal management	Hypervisor				Multimedia shared device folder
High performance, power efficient: Customized ARMv8 CPUs	CPU - ARMv8 8x Qualcomm® Kryo™, 4MB L3	Qualcomm® Adreno [™] GPU Generation 6 - Adreno 640 1.0 TFLOPS Open GL ES 3.x, Vulkan Qualcomm® FlexRender [™] Technology, Binning Architecture, HW Virtualization, Context Separations, up to 1.3 TFLOPS of performance, High Granularity Pre-emption			Highest performance GPU For infotainment, instrument cluster
NPU: AI/ML compute engine Neural Network Processing	NPU DCN ML Compute				
Heterogenous compute architecture High-performance DSP Multi-camera input	ISP/DSP/HVX HVX Vector and Scalar processing		LRDDR4 4x16 bit	4X	Multiple 4K displays, up to 8 simultaneous displays
Surround-view camera Object recognition, Image recognition	Display Processing Up to 8x Displays, >24 MP processing		ocessing 1	Security TrustZone, DRM, Deep earning based	Latest SCSA security architecture
Optional Modem: Multi-constellation support Optional Connectivity: Wi-Fi + Bluetooth ®	Modem LTE (10x CA) 2 Gbps throughput	I/O USB2, USB3.1 PCIe, ETH I2S, I2C Display Audio Camera		Multimedia Processing 2x high performance Audio DSP Audio Codecs Video Codecs HEVC/H.265 4K Encode and Decode	Next generation audio and video codec in hardware including HEVC, VP9 DVR capability with H.265 encode Superior multimedia technologies and fea