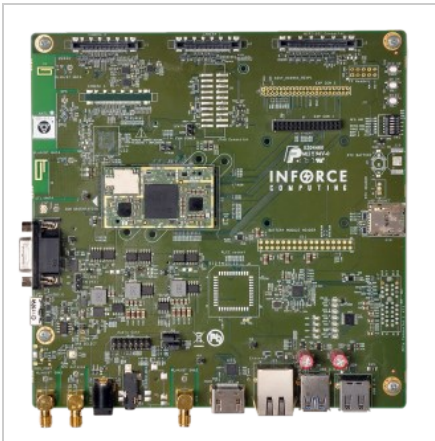




INFORCE 6601™ DEVELOPMENT KIT

*Operating System

Android

Qty:

1

ADD TO CART



SPECIFICATIONS

SNAPDRAGON

SOFTWARE

DOCUMENTATION

FAQ

PRICING

ACCESSORIES

Snapdragon 820 processor based production-ready Micro-SoM development kit for advanced embedded applications

Easy and seamless cross-compatibility and upgradability

- ⚙ Pin, connector, electrical, and form-factor compatibility with all Micro SOMs
- ⚙ Upgrade from Inforce 6401™ and Inforce 6501™ Micro SOMs
- ⚙ Simply swap the previous gen. SOMs on your existing custom carrier boards with the Inforce 6601 and port application software for faster time-to-market
- ⚙ Standard EMI shields available for BTO SKUs for electrical noise protection and dual-use heat spreading & dissipation to improve performance.

Empower next-gen embedded applications

- ⚙ Build demanding industrial IoT devices requiring high performance compute at the edge of the network
- ⚙ Take advantage of heterogenous compute and DSP to upgrade high-end portable medical systems
- ⚙ Build immersive, life-like VR/AR based hands-free computing devices and optimize for long battery life
- ⚙ Capture sharper, higher-quality images and video in challenging lighting situations for video analytics
- ⚙ Run advanced computer vision algorithms to navigate and perform dynamic collision avoidance in commercial drones and robots

Excellent 4K UHD HEVC video, multimedia, and connectivity options!

- ⚙ H.264 (AVC) playback and capture @4K30
- ⚙ H.265 (HEVC) playback and capture @4K30
- ⚙ Hi-Fi Audio with codec support for MP3, AAC + eAAC, WMA 9/Pro, Dolby AC-3, eAC-3, and DTS
- ⚙ Dual 4-lane DSI DPHY 1.2 and HDMI 2.0 interfaces for touch screen displays
- ⚙ Dual MIPI-CSI (2x4 lane) ports
- ⚙ Supports the capture of up to 28 megapixels with zero shutter lag on MIPI-CSI
- ⚙ Support for HDMI 2.0
- ⚙ BT4.2 LE/dual band WLAN 2x2 MU-MIMO (FCC pre-certified module), GPS, and GigE connectivity
- ⚙ Drivers for common peripherals
- ⚙ Android Nougat BSP support
- ⚙ Just plug and play

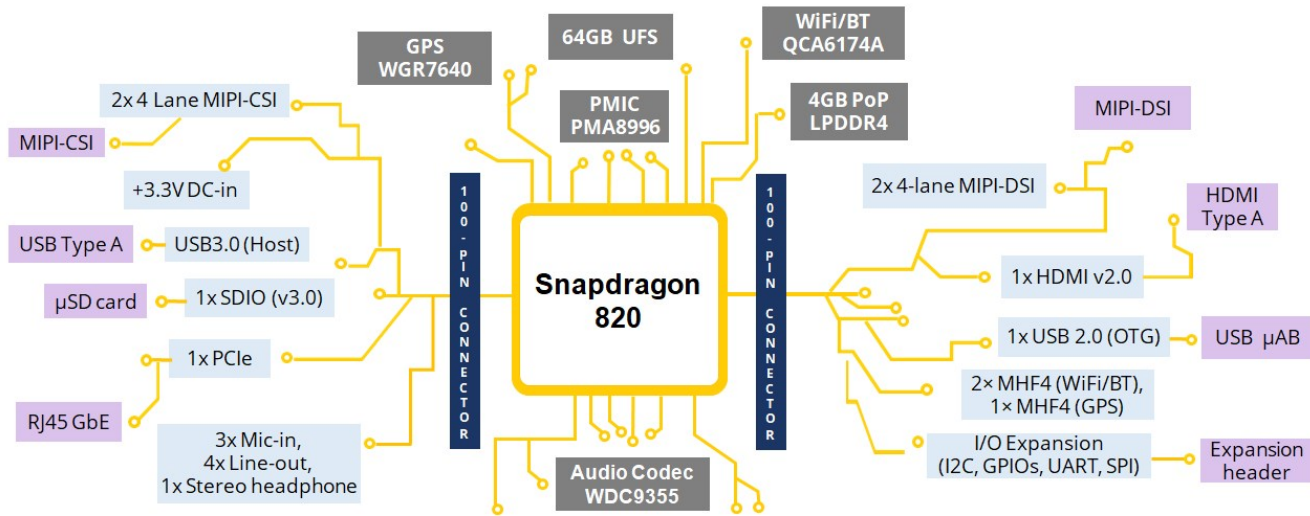
The Snapdragon 820 processor will enable a more immersive, intuitive, and connected experience for next-gen embedded applications

- ⚙ New Qualcomm® Kryo™ CPU: Delivers maximum performance and low power consumption. Kryo is Qualcomm's first custom 64-bit quad-core CPU manufactured in advanced 14nm FinFET LPP process (ARM®v8 ISA compatible)
- ⚙ New Qualcomm® Adreno™ 530 GPU: Upto 40% better graphics and compute performance at much lower power consumption

- ⌚ New Qualcomm® Spectra™ 14-bit dual image signal processors (ISPs) deliver high resolution DSLR-quality images using heterogenous compute for advanced processing and additional power savings
- ⌚ New Qualcomm® Hexagon™ 680 DSP includes Hexagon Vector eXtensions and Sensor Core with low-power island for always on sensor processing
- ⌚ New Qualcomm® Adreno Visual Display Processing delivers graphics, visual, and display enhancements that improve overall fidelity while reducing power consumption

Block Diagram

Inforce 6601 Development Kit New carrier



Specifications

Based on the latest Snapdragon™ 820 processor (APQ8096) manufactured in advanced 14nm FinFET LPP process

- ⌚ Kryo™ ARMv8 ISA 64-bit quad-core CPUs arranged in two dual-clusters, running at 2.2GHz (Gold) and 1.6GHz (Silver) each respectively
- ⌚ Adreno™ 530 GPU for upto 40% better graphics compute and lower power consumption
- ⌚ Hexagon™ 680 DSP with dual-Hexagon vector processor (HVX-512) @825MHz for ultra low-power audio and computer vision processing
- ⌚ Spectra™ 14-bit dual Image Signal Processors (ISPs) to support up to 28MP 30fps and 1.2GPix/s

PROCESSING POWER, MEMORY, AND STORAGE

- ⌚ Qualcomm® Snapdragon™ 820 (APQ8096 SoC) processor
- ⌚ 4GB on-board PoP LPDDR4 @1866MHz
- ⌚ 64GB UFS 2.0 gear 3 (1 lane)
- ⌚ Intelligent scalable power management for superior energy efficiencies

AUDIO, VIDEO, INTERFACE, AND CONNECTIVITY

- ⌚ Audio 4x Lineout, 2x HPH, 3x Mic-In
- ⌚ Hi-Fi Audio with codec support for MP3, AAC + eAAC, WMA 9/Pro, Dolby AC-3, eAC-3, DTS
- ⌚ 4K Ultra HD video with HEVC playback & capture
- ⌚ Dual MIPI-DSI (4-lane) & touch screen, 2x MIPI-CSI (4-lane)
- ⌚ HDMI v2.0
- ⌚ 1x USB 3.0 (Host)
- ⌚ 1x USB 2.0 (Host/OTG)
- ⌚ 1x SDC
- ⌚ 2x BLSPs for UART/I2C/SPI
- ⌚ 8x GPIOs, Slimbus
- ⌚ 802.11ac 2X2 MU-MIMO 2.4GHz/5GHz WiFi & BT 4.2LE
- ⌚ GPS/GNSS

POWER, MECHANICAL, AND ENVIRONMENTAL

- ⌚ Power: +3.3V/6A Input
- ⌚ Dimensions: 50mm x 28.5mm (Micro SOM)
- ⌚ 17cm x 17cm with Carrier Board (Mini-ITX)
- ⌚ Operating Temp: 0 to +70 C (Commercial)

⚙ Relative Humidity: 5 to 95% non-condensing

⚙ RoHS and WEEE compliant

PRODUCTS

Systems on Modules

Single Board Computers

Development Kits

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