The Inforce 6601 Micro SOM, powered by the next-gen ARM®v8 64-bit quad-core Qualcomm Snapdragon 820 applications processor (APQ8096), is suitable for several advanced embedded applications. The Inforce 6601 Micro SOM provides pin, electrical, connector, and form-factor compatibility across a wide product line of Micro SOMs that share a common carrier board design. The Inforce 6601 Micro SOM also comes with an optional EMI shielding for better RF noise protection, while also doubling up as a medium for heat spreading and dissipation to improve performance.

Storage, Multimedia, and Connectivity

- 4GB LPDDR4
- 64GB UFS 2.0 gear 3 (1 lane)
- eMMC 5.1 (optional)
- 1x µSD card SD3.0 interface with support up to HS400
- H.264 playback @4K60 and capture @4K30
- H.265 playback @4K60 and capture @4K30
- Hi-Fi Audio with codec support for MP3, AAC + eAAC, WMA 9/Pro, Dolby AC-3, eAC-3, DTS
- Dual 4-lane DSI DPHY 1.2 and HDMI 2.0 interfaces for touch screen displays
- Supports the capture of up to 28 megapixels with zero shutter lag on MIPI-CSI
- BT4.2 LE and dual band WLAN 2x2 MU-MIMO

Compute Power and Performance

- Qualcomm Snapdragon 820 processor (APQ8096 SoC)
- Quad-core ARM®v8 64-bit CPUs organized as two dual clusters viz., Gold@2.2GHz and Silver@1.6GHz each
- Adreno™ 530 GPU with 64 bit addressing and support for OpenGL ES 3.2, OpenCL 2.0, and Vulcan
- Hexagon™ 680 DSP with dual-Hexagon vector processor (HVX-512) @825MHz for ultra low-power audio and computer vision processing
- Dual 14-bit Spectra™ ISP with support for up to 1.2Gpix/sec throughput with zero shutter lag
- Onboard LPDDR4 RAM, UFS Flash Memory, WiFi/BT, audio codec, power management and GPS
- Complete 4K encode/decode system - 4k60 H.265/VP9 decode with uncompressed 4K display

4K UHD HEVC Video and HDMI 2.0 Capable SoM for SWaP Constrained Embedded Applications
Flexible and Configurable I/O Interfaces

- HDMI V2.0
- Dual MIPI-DSI (4-lane) with touch
- 2x 4-lane MIPI-CSI
- 1x USB 3.0; 1x USB 2.0 (Host/Device/OTG)
- 12x BLSPs for GPIO/UART/I2C/SPI
- 4x Lineout; 1x Headphone; 3x Mic-in; 1x SlimBUS
- 1x PCIe; 1x SDC
- 802.11ac 2X2 MU-MIMO 2.4/5GHz WiFi & BT 4.2LE; 2x MHF4
- GPS/GNSS; 1x MHF4
- GbE (on carrier)

Power, Mechanical and Environment

- Power: +3.3V/6A Input
- Operating Temp: 0°C to 70°C
- Storage Temp: -20°C to 80°C
- Relative Humidity: 5 to 95% non-condensing
- RoHS and WEEE compliant

Software

- Android Nougat 7.1.1 BSP
- Debian Jessie (or higher) Linux BSP


Inforce Computing® is a supplier of application-ready embedded hardware platforms in eco-aware, low-profile footprints, available off-the-shelf to serve growing markets enabled by the next generation of connected devices. At Inforce, we are inspired by the inflection point in mobile and wireless technologies which is spawning innovative devices, content, and services. Together with our silicon, software, and system partners, Inforce is pioneering products with an optimized delivery model for medical imaging, smart office, hands-free computing, robotics and drones.

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