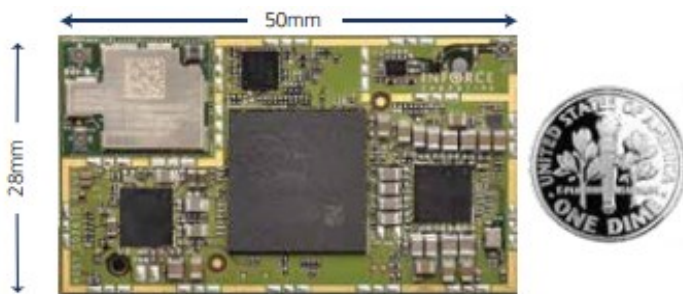




Inforce 6601™ Micro SOM

Qualcomm® Snapdragon™ 820 Processor-based Tiny System on Module

4K UHD HEVC Video and HDMI 2.0 Capable Micro SOM for SWaP Constrained Embedded Applications



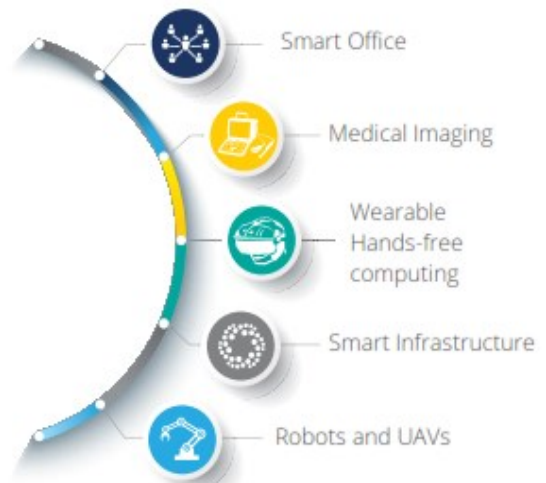
The **Inforce 6601 Micro SOM**, powered by the next-gen ARM@v8 64-bit quad-core Qualcomm Snapdragon 820 applications processor (APQ8096), is suitable for several advanced embedded applications. The Inforce 6601 Micro SOM provides pin, electrical, connector, and form-factor compatibility across a wide 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

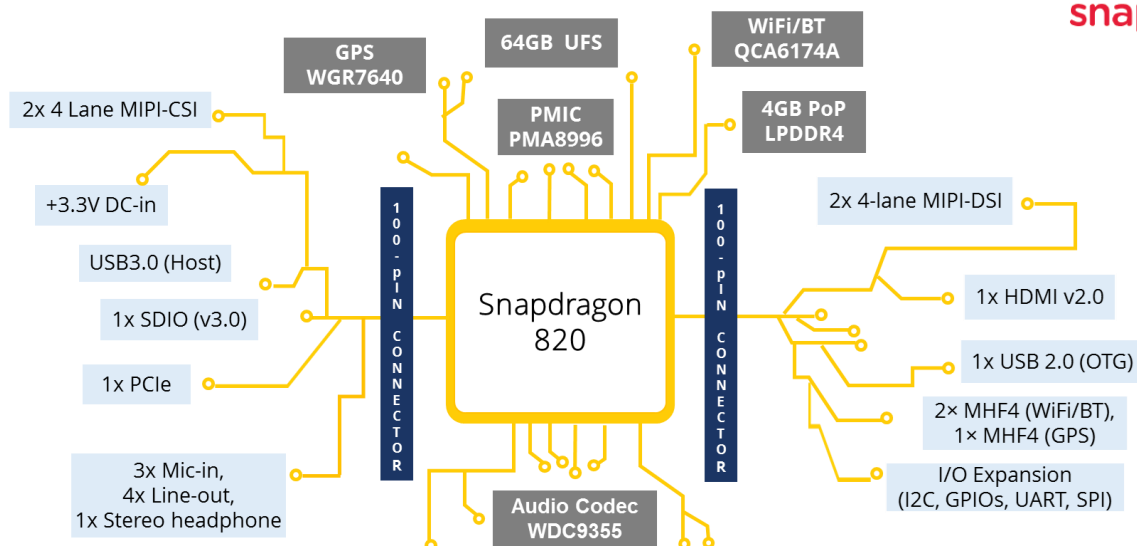
- 4GB LPDDR4@ 1866MHz
- 64GB UFS 2.0 gear 3 (1 lane)
- eMMC 5.1 (optional)
- 1x μ SD card SD3.0 interface with support up to HS400
- H.264 playback and capture @4K60
- H.265 playback @4K60 and capture @4K30
- Hi-Fi Audio with codec support for MP3, AAC + eAAC, WMA 9/Pro, Dolby AC-3, eAC-3, DTS
- Dual 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
- BT 4.2 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 Vulkan
 - 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 4K60 encode/decode system - 4k60 H.265/VP9 decode with uncompressed 4K display



Broad Application Space



Flexible and Configurable I/O Interfaces

- HDMI V2.0
- Dual MIPI-DSI (4-lane) with touch
- 2x 4-lane MIPI-CSI
- 1xUSB 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 Wi-Fi & 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
- Dimensions: 28mm x 50mm
- Weight: 11grams / 0.4Oz

Software

- Android Marshmallow 6.0.1 BSP
- Debian Jessie (or higher) Linux BSP

Carrier Board For Inforce 6601 Micro SoM



**Not all interfaces can be used at the same time*

A mini-ITX carrier board (170 X170mm) expands the I/O and connectivity of the Inforce 6601 micro SOM. A full-fledged development platform ([Inforce 6601 Development Kit](#)) inclusive of both is available.

Ordering Information

Part Number	Description	Available
IFC6601-00-P3	Micro SOM (Android)	Now
IFC6601-10-P3	Micro SOM (Linux)	Q2 2017
SYS6601-00-P3	Mini-ITX Dev. Kit (Android)	Now
SYS6601-10-P3	Mini-ITX Dev. Kit (Linux)	Q2 2017

Inforce — Embedded. Connected. Aware.

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