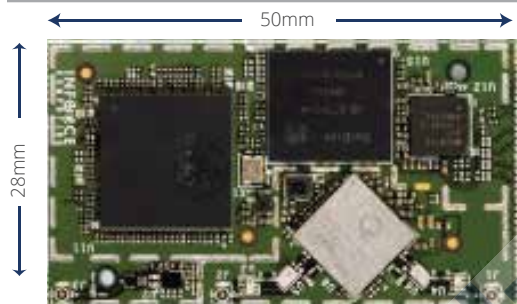




## The high - performance Inforce 6401™ SoM

Qualcomm® Snapdragon™ 600 Processor Based Tiny System-on-Module

### High performance module for space, weight and power (SWaP) constrained embedded applications



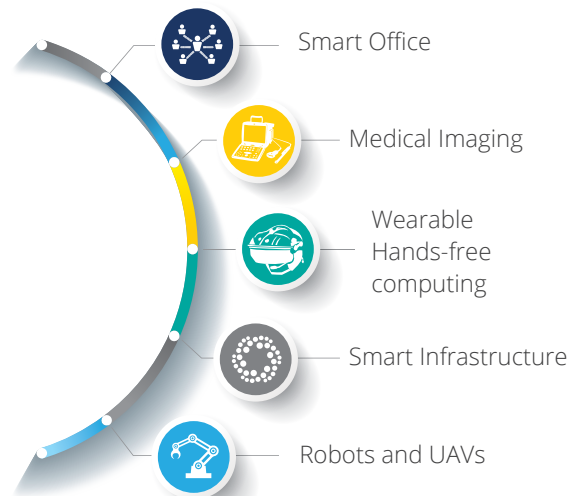
The high-performance Inforce 6401 Micro SOM, is based on Qualcomm's powerful, well-proven, and long lifecycle Snapdragon 600 processor (APQ8064) for embedded applications. The plug-and-play Inforce 6401 Micro SOM comes in an ultra-small form factor of 28mm x 50mm. The Inforce 6401 Micro SOM is pin, electrical, and form-factor compatible across a growing product line of Snapdragon processor based SOMs and shares a common carrier board design for easy migration to new Qualcomm technologies. The compute dense Micro SOM is an ideal platform for a variety of SWaP constrained Android and Linux based embedded applications. Available SKU variants also include EMI shielding for better RF noise protection for applications that require it.

### Processing, Performance, and Connectivity

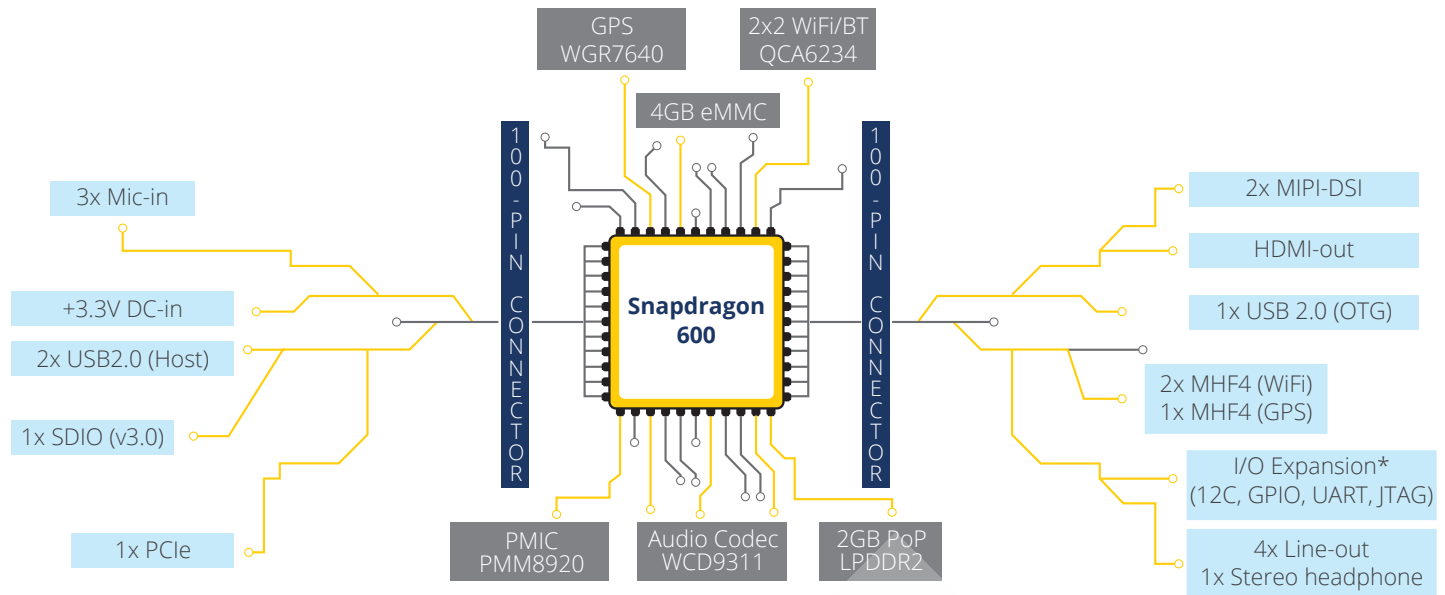
- 4GB eMMC v4.4.1/4.5 (support up to 64GB) NAND flash
- Up to 3GB PoP LPDDR2 @533 MHz
- 1x  $\mu$ SD card interface
- 1080p HD video w/ H.264 (AVC) capture and playback
- Hi-Fi Audio with 24bit/192Khz playback support
- Available interface for MIPI-DSI based flat panel and touch screen display
- Supports up to a 20MP Camera on MIPI-CSI
- Bluetooth 4.0 and dual-stream Wi-Fi
- On-board GPS/GNSS
- Support for 1x PCIe

### Processing, Performance, and Connectivity

- Qualcomm® Snapdragon™ 600 based (APQ8064 SoC)
- Quad-core Krait™ 300 CPU @1.7GHz each, 2MB L2 cache
  - ARM@v7 compliant, VeNum 128-bit SIMD MM coprocessor, and TrustZone™ support
- Adreno 320 GPU (QXGA/1080p) with support for OpenGL ES3.0, OpenCL, DirectX, and Renderscript Compute
- Hexagon™ DSP v4 @500MHz for ultra low-power audio and computer vision processing
- Image signal processor (ISP) with support for 2 cameras up to 20MP
- Independent dynamic CPU/GPU clocking and voltage scaling for superior power efficiencies
- Onboard PoP DDR RAM, eMMC flash memory, WiFi/BT, audio codec, power management and GPS



**Broad Application Space**



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

## Flexible and Configurable I/O Interfaces

- µHDMI 1.4a
- Dual MIPI-DSI (4-lane each) and Touch Screen
- Dual MIPI-CSI (4/2 lane)
- 2x USB 2.0 (Host)
- 1x USB 2.0 (OTG)
- 1 x PCIe
- SDIO
- WiFi and GPS antenna connectors
- 1x JTAG
- 2x I2C, SPI, 1x UART, 8x GPIO
- SLIMBUS
- 1x Stereo headphone out, 4x lineout, 3x mic in

## Network Interfaces

- Dual stream 802.11 n/ac 2.4GHz/5GHz WiFi
- Bluetooth 4.0
- GPS/GLONASS

## Power, Mechanical, and Environmental

- Power: +3.3V/6A Input
- Dimensions: 50 mm x 28 mm
- Operating Temp: 0 to 70 C
- Storage Temp: -20 to 80 C
- Relative Humidity: 5 to 95% non-condensing
- RoHS and WEEE compliant

## Inforce - Embedded. Connected. Aware.

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.

## Carrier board for Inforce 6401 Micro SOM

A mini-ITX carrier board (170 X170mm) expands the I/O and connectivity of the Inforce 6401 micro SOM. A full development board (Inforce 6401 Development Kit) inclusive of both is available.



## Ordering Info

Part Number	Description	Available
IFC6401-00-A1	Micro SOM (Android)	Q4 2015
IFC6401-10-A1	Micro SOM (Linaro)	Q4 2015
SYS6401-00-A1	Mini-ITX Dev. Kit (Android)	Q4 2015
SYS6401-10-A1	Mini-ITX Dev. Kit (Linaro)	Q4 2015

## Software Support

- Android KitKat 4.4 BSP
- Linaro Ubuntu Linux 14.04 BSP
- Device drivers for cameras, displays, and peripherals

© 2015 inforce computing, Inc. All rights reserved. All data provided is for informational purposes only and does not represent any expressed or implied guarantees. At the time of publishing, the information is believed to have been accurate; nevertheless, Inforce computing doesn't assume responsibility for any errors, omissions, and inaccuracies whatsoever. Product specifications are subject to change without notice. Inforce Computing and the Inforce logo are registered trademarks of Inforce Computing, Inc. in the USA and other countries. Qualcomm and Snapdragon are trademarks of Qualcomm Incorporated, registered in the United States and other countries; used with permission. Qualcomm Snapdragon is a product of Qualcomm Technologies, Inc. Qualcomm Snapdragon, Qualcomm Adreno, Qualcomm Hexagon, Krait™ and HQV™ are products of Qualcomm Technologies Inc. All other trademarks and product information are the property of their respective owners.