



Inforce 6540™ SBC

Tiny Single-board-computer based on the Qualcomm® Snapdragon™ 805 Processor

Bringing the Latest Snapdragon 805 Processor and More Advanced Multimedia Features to Embedded Designs

Inforce Computing's highest performing **Inforce 6540 SBC** is based on Qualcomm's Snapdragon 805 processor (APQ8084). The plug-and-play Inforce 6540 SBC comes in an ultra-small pico-ITX form factor. The Snapdragon 805 processor is the first commercial mobile-grade processor to support 4K Ultra HD display, including 4K Ultra HD UI and hardware assisted 4K Ultra HD video capture and playback realistic 3D gaming, and up to 55MP camera support. In addition, GPS, support for dual-MIPI-DSI displays, and dual-MIPI-CSI cameras makes the Inforce 6540 SBC a great choice for a variety of unique embedded Android and Linux-based applications.

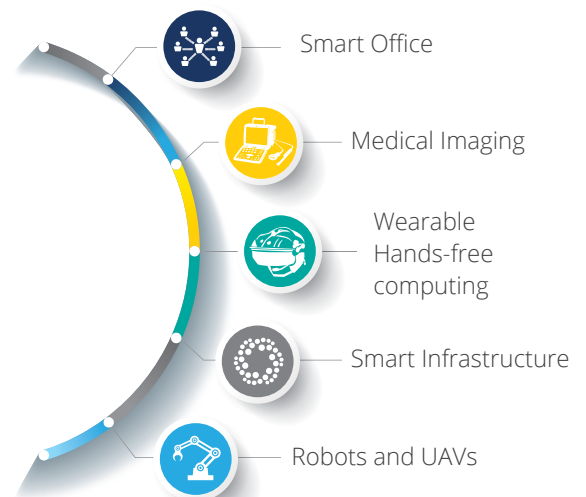


Pico-ITX

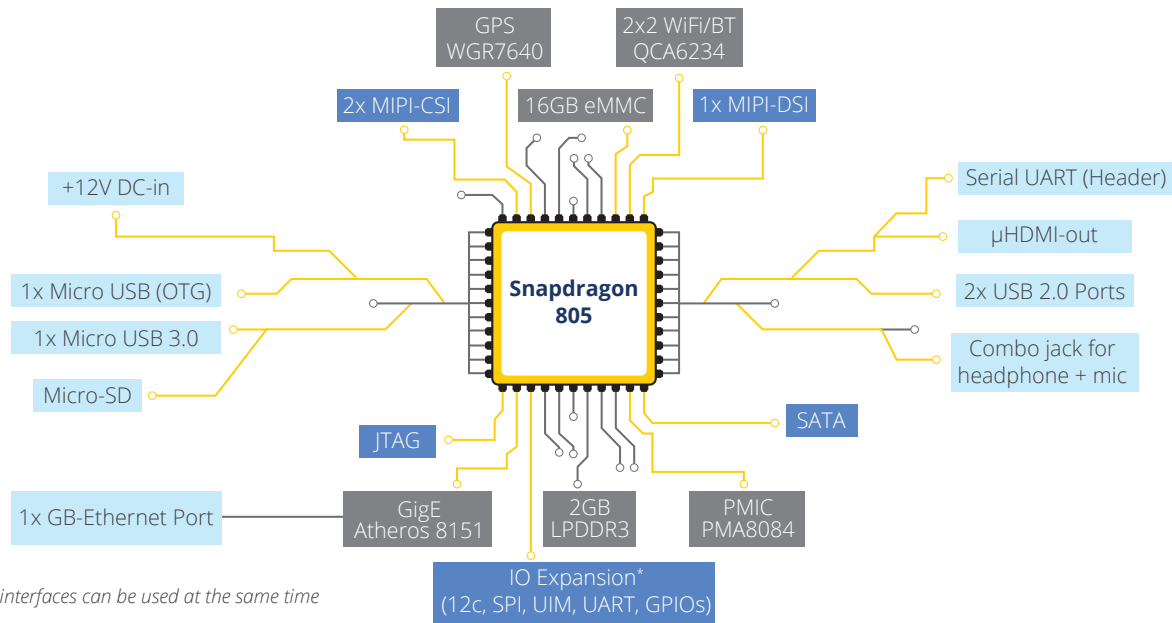
Processing, Performance, and Connectivity

- Qualcomm® Snapdragon™ 805 APQ8084 SoC
 - Quad-core Krait™ 450 CPU @2.7GHz each, 2MB L2 cache. ARM®v7 compliant
 - Adreno™ 420 GPU @4.8 Giga Pixels/second; support for OpenGL ES3.1, OpenCL 1.2 Full Profile, plus hardware tessellation, geometry shaders, programmable blending, and low power consumption
 - Hexagon™ DSP v50 @600MHz for ultra low-power audio and computer vision processing
 - Dual image signal processors (ISP) @1.2GP/s throughput and support for cameras up to 55MP
- 16GB eMMC v4.5/5.0 (support up to 64GB) NAND flash
- Up to 3GB PoP LPDDR3 @800MHz 2x 64-bit 25.6GB/s memory bus for fast, seamless multitasking
- 4K Ultra HD video w/ HEVC (H.265) playback & H.264 capture
- HQV™ Video Post Processing
- 802.11 n/ac 2X 2.4GHz/5GHz WiFi & Bluetooth 4.1
- GPS/GLONASS for navigation
- Onboard sensor module (Accelerometer/Gyroscope)
- Dual 4-lane MIPI-DSI for displays with touch screen interface

- Dual 4-lane MIPI-CSI for two cameras up to 21MP each
- Dual 1-lane MIPI CSI for 3D/Stereo cameras



Broad Application Space



I/O Interfaces and Expansion Headers

- µHDMI Rev1.4a for 1080p60 HD
- 2x Combo-jack for headphone/Mic-in
- 1x µSD card slot
- SATA3
- Gigabit Ethernet
- GPS/WiFi U.FL antenna connectors
- 1x USB 3.0 (type-A host mode)
- 1x µUSB Super Speed 3.0 (device mode)
- 2x USB 2.0 (type-A) • 8x GPIO
- 1x I2C • 1x SPI • 1x UART
- UIM • JTAG

Software

- Android KitKat pre-loaded
- Support for other 3rd party software from Qualcomm such as FastCV™, Vuforia™, AllJoyn™, Zeroth™, etc.

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.

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Power, Mechanical and Environmental

- Power: +12V Input Socket (3A typ.)
- Dimensions: 10cm × 7cm (Pico-ITX)
- Operating Temp: 0°C to 70°C
- Storage Temp: -20°C to 80°C
- Relative Humidity: 5 to 95% non-condensing
- RoHS and WEE compliant

Ordering Info

Part Number	Description	Available
IFC6540-00-A1	Pico-ITX Dev. Kit (Android)	Q3 2014
IFC6540-01-P1	Pico-ITX Dev. Kit (Linaro)	Q3 2014