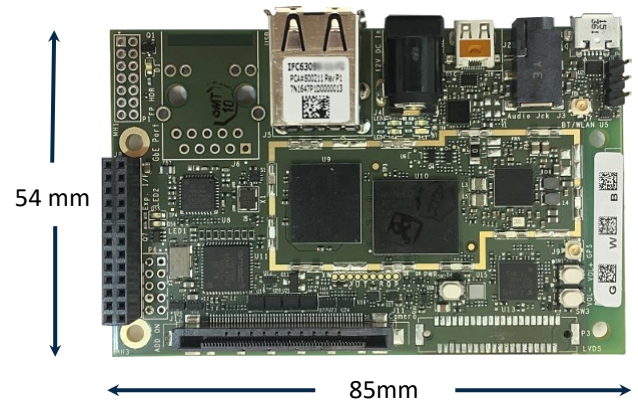# Inforce 6309L™ Micro SBC

Micro Single Board Computer Based on the Qualcomm® Snapdragon™ 410 Processor

The Inforce 6309L micro SBC is a compact single board computer (SBC) based on the powerful 64-bit Snapdragon 410 processor. The credit card sized (54mm x 85mm) Micro SBC is an application-ready platform, with minimum interfaces suitable for various embedded markets. It delivers an essential set of I/Os and features including dual MIPI-CSI cameras and HDMI display.

The Inforce 6309 Micro SBC delivers high performance, rich multimedia, low power consumption, connectivity and comprehensive support for an upstream Linux kernel (Linaro), Android OS including device drivers for embedded applications such as:
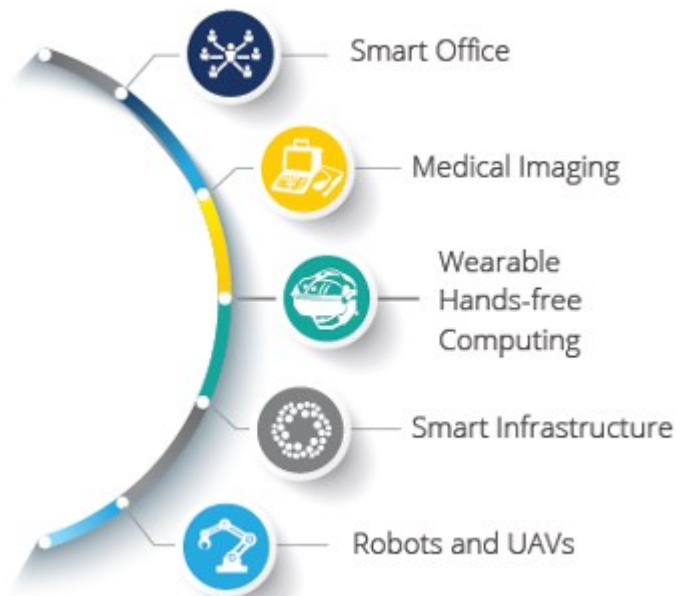
- Industrial automation
- Internet-of-Everything (IoE) devices
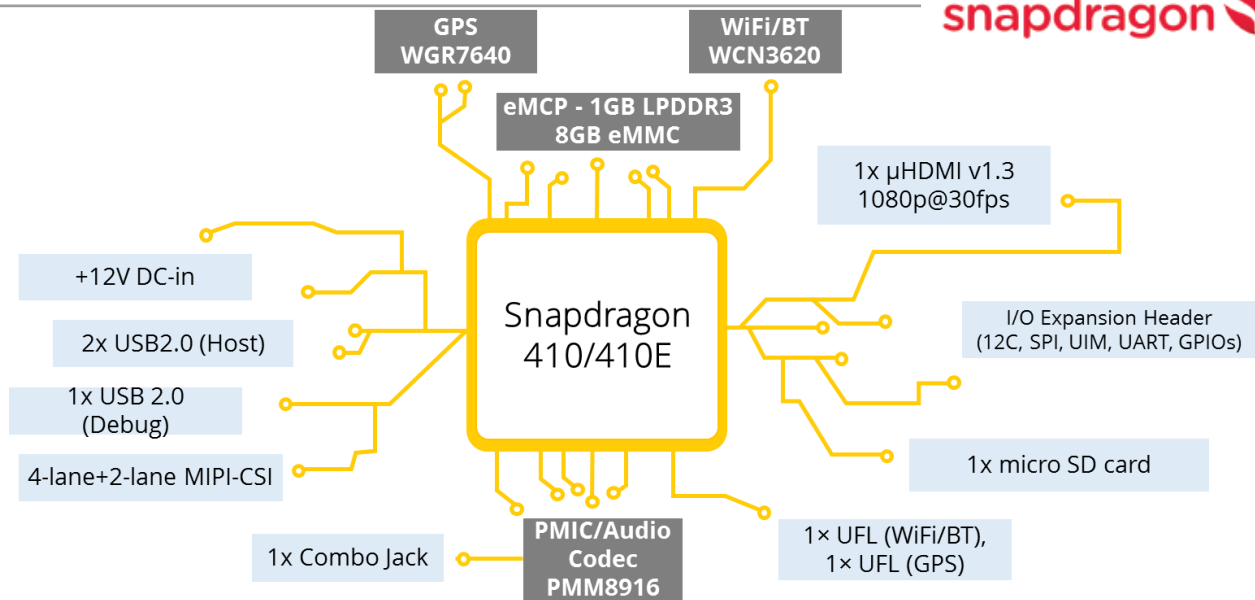- Digital Signage, Smart Infrastructure, Retail

54 mm

85mm

Micro SBC

Processing, Power and Performance

- Qualcomm® Snapdragon™ 410 processor (APQ8016 SoC)
  - Quad-core ARM® Cortex® A53 64-bit CPU @1.2GHz each, ARMv8-A ISA compliant
  - Adreno™ 306 GPU with support for OpenGL ES 3.0, DirectX, and OpenCL
  - Hexagon™ QDSP6 @700MHz for ultra-low power audio and computer vision processing
  - Integrated ISP with support for 1.5GPs throughput
- 1GB LPDDR3 RAM @533MHz + 8GB eMMC (eMCP package)
- MicroSD card connector
- 802.11 b/g/n 2.4GHz WiFi , BT 4.1 LE, GPS
- Supports dual-cameras (13MP total) on MIPI-CSI
- µHDMI output for HD1080p @30fps video and HD audio

- Smart Office
- Medical Imaging
- Wearable Hands-free Computing
- Smart Infrastructure
- Robots and UAVs

Broad Application Space

Qualcomm® Snapdragon™

Block Diagram Labels

- GPS WGR7640
- WiFi/BT WCN3620
- eMCP - 1GB LPDDR3 8GB eMMC
- 1x µHDMI v1.3 1080p@30fps
- +12V DC-in
- Snapdragon 410/410E
- I/O Expansion Header (12C, SPI, UIM, UART, GPIOs)
- 2x USB2.0 (Host)
- 1x USB 2.0 (Debug)
- 4-lane+2-lane MIPI-CSI
- 1x micro SD card
- 1x Combo Jack
- PMIC/Audio Codec PMM8916
- 1× UFL (WiFi/BT), 1× UFL (GPS)

Additional Technical Specifications

Video, Audio and I/O Interfaces

- µHDMI Rev1.3a for 1080p30 HD
- Dual MIPI-CSI2 (4/2-lanes)
- Combo-jack for headphone/Mic-in
- Support for 720p Miracast™
- H.264 playback and capture @1080p
- H.265 playback @1080p
- 26-pin I/O expansion header
- External antenna connectors

- 2× USB 2.0
- 1× USB 2.0 OTG
- 1× I2C
- 1× SPI
- 1x I2S
- 2× UART
- 20× GPIO

Power, Mechanical and Environmental

- Power: +12V DC Input Socket (1.5A typ.)
- Dimensions: 54mm x 85mm (Micro SBC)
- Operating Temp: 0°C to +55°C
- Relative Humidity: 5 to 95% non-condensing
- RoHS and WEEE compliant

Ordering Info

Part Number	Description	Availability
IFC6309L-00-P1	Micro SBC (Android/Board Only)	Off-the-Shelf
IFC6309L-10-P1	Micro SBC (Linux /Board Kit)	Off-the-Shelf

**Board ships with RTC*

Software

- Choice of Android Lollipop/Linaro Ubuntu Linux board support packages (BSP)/OS pre-loaded

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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