The Snapdragon processor platform is ideal for Internet of Everything use cases in smart homes, industrial automation, digital media players, smart surveillance and home appliances.

Smart Home: Integrated connectivity
Integrated WiFi/WLAN, Bluetooth® and GPS for portable applications without sacrificing a USB port

Industrial and home appliances: Powerful processing
Superior CPU architecture is capable of both 32-bit and 64-bit processing — designed for an improved user experience

Smart surveillance cameras: HD video encode and decode
Snapdragon 410 video core supports popular co-decs including H.264, MPEG4, MPEG2 and VC1 for better software compatibility

Digital media and TV dongles: 3D graphics and multimedia
Adreno 306 GPU supports DX11 FL9.3 for next-generation media players

Model APQ8016 for Embedded Computing

From the DragonBoard™ Community Board to production-ready system-on-modules (SoM) for commercialization, the Snapdragon 410 processor is designed to meet the demanding requirements of embedded computing applications with its high performance, energy efficiency, multimedia features and integrated connectivity.

+ 1.4GHz 64/32-bit quad ARM® Cortex®-A53 CPUs
+ New ARM v8-A ISA offers an efficient instruction set
+ Qualcomm® Adreno™ 306 Graphics with support for multiple APIs including OpenGL ES 3.0, DirectX, and OpenCL
+ Qualcomm® Snapdragon StudioAccess™ technology and Qualcomm® SecureMSM™ platform for content and platform security
+ 13MP camera support with Wavelet Noise Reduction and JPEG Decoder done in hardware
+ Worldwide ecosystem of Snapdragon vendors, customers, developers and embedded device OEMs

To learn more visit: snapdragon.com or mydragonboard.org

Qualcomm Snapdragon, Qualcomm StudioAccess, Qualcomm SecureMSM and Qualcomm Adreno are products of Qualcomm Technologies, Inc.
The Snapdragon 410 processor offers high performance, rich multimedia, low power consumption and support for multiple operating systems (Windows 10, Linux, Android).

Snapdragon supports a clear deployment path for embedded device OEMs and developers - starting with single-board computers and development kits and scaling up to customer solutions, integration services and production-ready, customizable SOMs.

FEATURES & SPECIFICATIONS

CPU
+ Quad ARM® Cortex® A53 up to 1.4GHz with both 32-bit and 64-bit support — Commercialized in millions of mobile devices worldwide

GPU
+ Adreno 306 GPU: OpenGL ES 3.0, OpenCL, DirectX, content security, and decreased power consumption

Display
+ 1920x1200
+ 1080p external displays supported
+ 720p Miracast™ Support

Memory & Storage
+ LPDDR2/LPDDR3@533MHz
+ SDIO 3.0 (UHS-I)
+ eMMC 4.5 — For faster access to code than SDIO

Security
+ Snapdragon StudioAccess

Camera
+ Integrated ISP can support 1.5GP/s throughput and image sensors up to 13MP

Multimedia
+ 1080p HD @ 30fps
+ FHD HEVC playback
+ FHD H.264 capture
+ Qualcomm® Snapdragon™ Voice Activation
+ 5.1 surround sound with Dolby and DTS

Connectivity
+ 802.11n 2.4GHz WiFi
+ BT4.1 — For wirelessly connecting keyboard, mouse and audio
+ Qualcomm® IZat™ location technology Gen8C
+ 2x USB2.0 Type A Host ports
+ 1x USB2.0 host port on High-Speed Expansion connector
+ 1x USB2.0 micro-USB Device port — For rapid download of code from host device

DSP
+ QDSP6 DSP

As compared to its predecessor, the Adreno 305 GPU in the Snapdragon 400 processor.