

IFC6410

Snapdragon™ S4 Pro Pico-ITX Single-Board Computer



High performance, Cost-effective solution based on the Snapdragon S4 Pro chipset

The IFC6410 is an ultra-small, cost-effective single-board computer solution for embedded developers in a convenient Pico-ITX standard form factor. The IFC6410 provides developers access to the rich I/O features of the Snapdragon S4 Pro System-on-Chip at a cost that will not break your budget. The standalone IFC6410 provides quad core A15 class computing in a space-saving footprint with easy access to industry standard I/Os which creates the perfect environment for a variety of unique Android and Linux based multimedia applications including digital signage, thin clients, industrial robotics, and video conferencing.

Features of Snapdragon APQ8064

- ◆ High Performance A15-class Computing
- ◆ Best-in-class energy efficiency with dedicated power management
- ◆ Best-in-class GPU performance
- ◆ Rich multimedia 1080p capabilities
- ◆ Dedicated DSP for Audio Processing

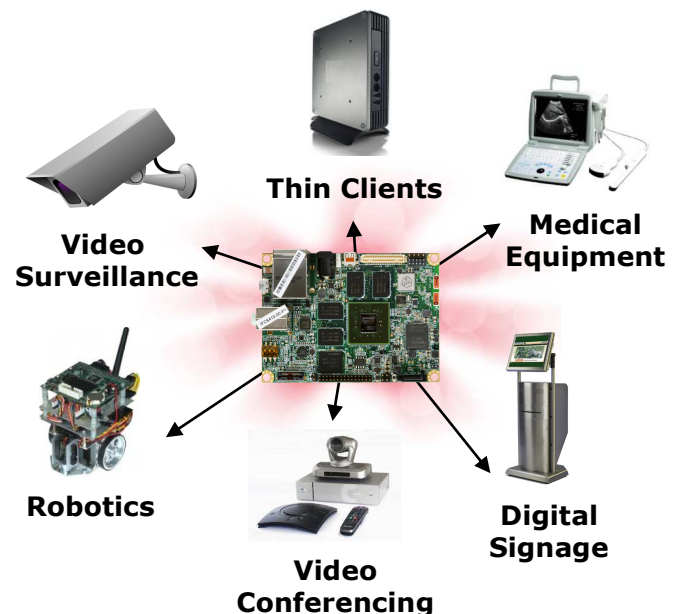


Processing, Power, and Performance

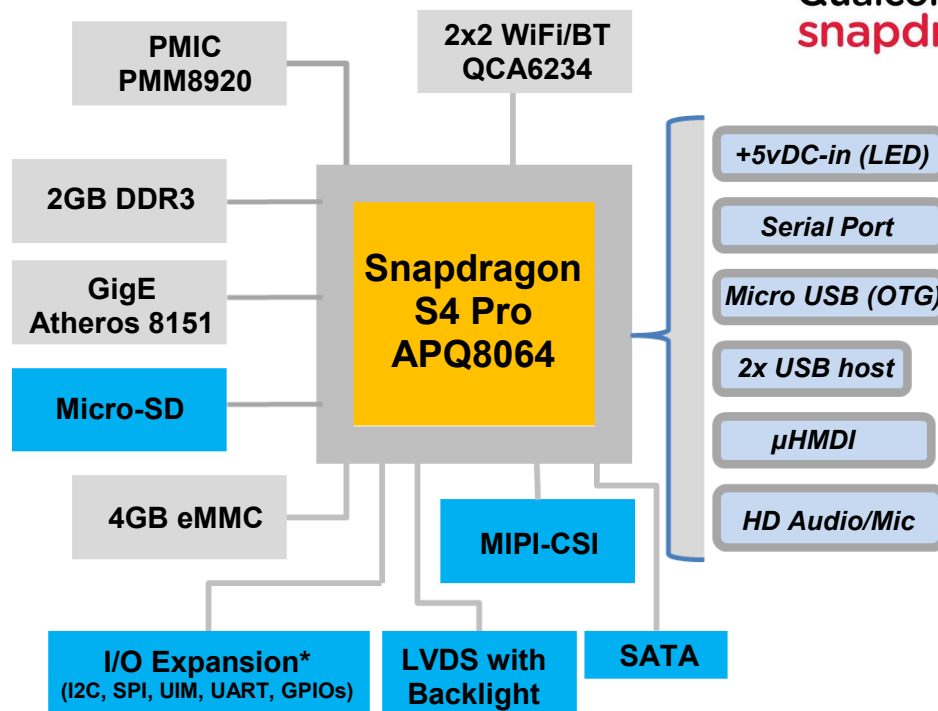
- ◆ Qualcomm® Snapdragon™ S4 Pro APQ8064
- ◆ Quad core Krait , 1.7GHz, 2MB L2 cache
- ◆ 2 GB on-board DDR3
- ◆ Independent Clock Scaling Per Core

Connectivity, Storage & I/O

- ◆ MicroSD card connector, External SATA, eMMC 4GB
- ◆ µHDMI output HD1080p Video
- ◆ Available interface for LVDS-based flat panel and touch screen display
- ◆ HD Audio and Mic-in
- ◆ Supports up to a 20MP Camera MIPI-CSI2
- ◆ Bluetooth 4.0 and Wi-Fi via Atheros QCA6234
- ◆ Standard I/O interfaces including GbE, I2C, SPI, UART, UIM, GPIOs, etc. and on-board Serial Console and USB



Block Diagram



* Not all interfaces can be used at the same time

Technical Specifications

Processor, GPU, and Memory

- ◆ Qualcomm Snapdragon S4 Pro APQ8064 Quad Core Processor (1.7GHz)
- ◆ 2GB on-board PCDDR3, up to 533MHz
- ◆ Adreno 320 (QXGA/1080p)

Storage Interfaces

- ◆ μSD card connector
- ◆ eMMC 4GB
- ◆ External SATA

Video, Audio, and I/O Interfaces

- ◆ μHDMI for HD1080p
- ◆ LVDS
- ◆ MIPI-CSI2 (4-lane)
- ◆ HD Audio and Mic-in
- ◆ 2x USB 2.0
- ◆ 1x USB OTG
- ◆ Serial Console on 3-pin header
- ◆ 1x I2C
- ◆ 1x SPI
- ◆ 1x UART
- ◆ UIM
- ◆ 8x GPIO

Network Interfaces

- ◆ 802.11 b/g/n WiFi + Bluetooth 4.0
- ◆ 10/100/1000bps Ethernet

Power, Mechanical, and Environmental

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

Ordering Info

Part Number	Description	Available
SYS6440-00-P1	Development Kit	NOW
IFC6400-00-P1	Qseven Module	NOW
IFC6410-00-P1	Pico-ITX SBC	NOW

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