

# Penguin Edge<sup>™</sup> IFC6720

Application-Ready Platform based on the Qualcomm<sup>®</sup> Snapdragon<sup>™</sup> 845 Processor

- ▶ Higher performance with Qualcomm Kryo 385 CPU with independent efficiency and power clusters, each designed to optimize for a unique UX
- ▶ Hexagon 685 DSP and Adreno 630 GPU featuring room-scale 6DoF with SLAM, to support on-device AI and efficient rendering of advanced 3D graphics
- ▶ Dual simultaneous displays capable of 4K60 resolution and 460 capable HDMI Input concurrently
- ▶ Qualcomm content protection framework; secure boot; storage and debug security
- ▶ Extended lifecycle; OEM engagement options for build-to-order and custom variants
- ▶ Production-ready with volume-conscious pricing
- ▶ Dedicated technical support from TechWeb

## Application-ready system with UHD @ 60 HDMI input and dual concurrent UHD displays

The Penguin Edge<sup>™</sup> IFC6720 Application-Ready Platform is designed exclusively to drive networked video content distribution in an optimized, reliable and secure digital environment to suit applications like digital signage or video conferencing.

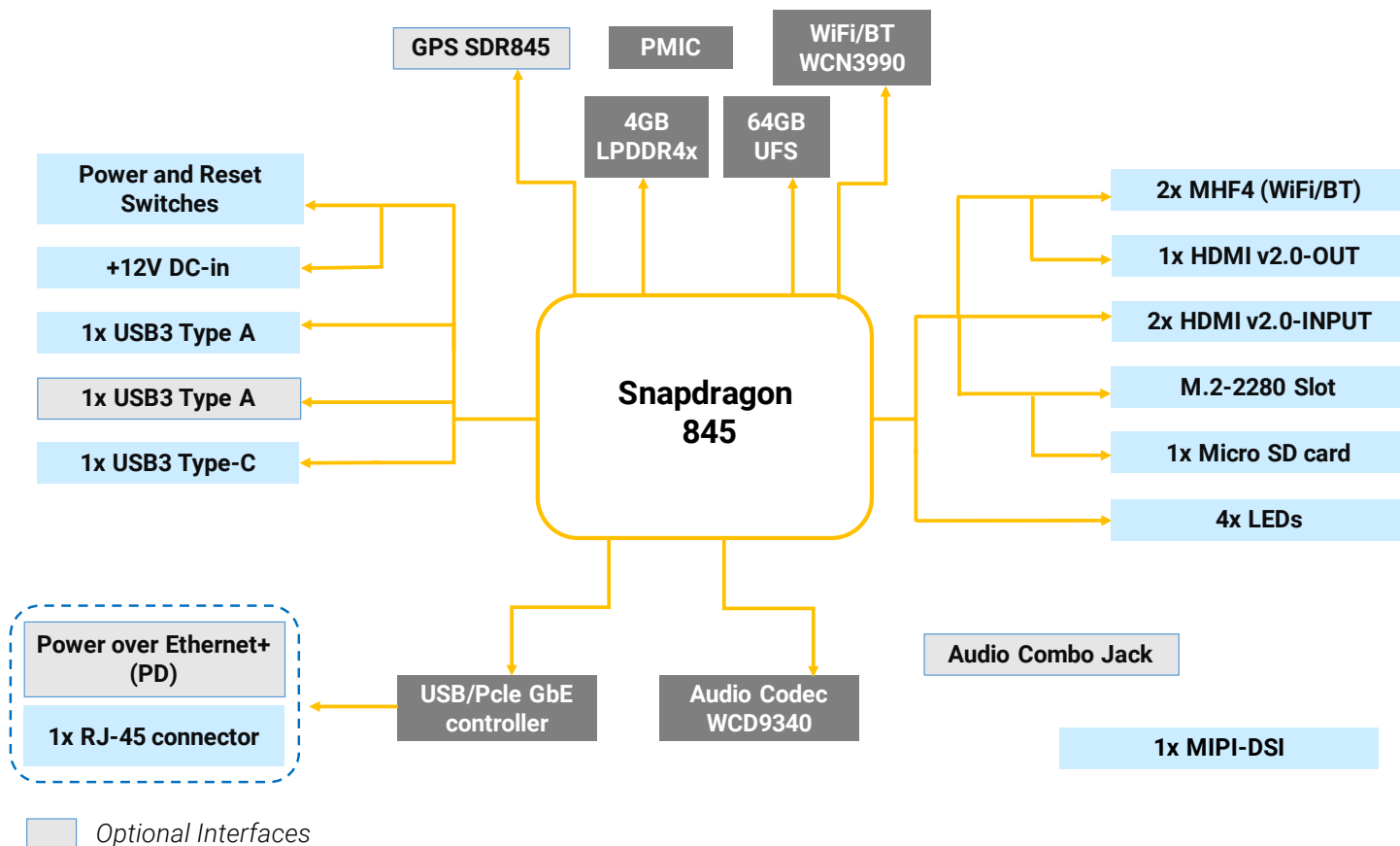
It is a turnkey solution that combines Snapdragon 845's superior hardware architecture with home-grown efficient software solutions to provide a complete 4K60 encode/decode system comprising dual concurrent displays with wireless content-sharing capabilities and ample internal memory including a M.2-2280 SSD slot. The product is a production-ready platform and includes excellent thermal dissipation techniques with a fan-less enclosure to enable you to stream/mirror/control of Ultra HD video content at 60 fps over long durations uninterrupted.



Digital Signage



Video Collaboration



## Technical Specifications

### Processors

- ▶ Custom 64-bit Kryo Octocore ARM V-8 compliant CPU (SDA845 SoC) @ 2.8/1.8GHz each
- ▶ Qualcomm Adreno 630 GPU with support for Open GLES 3.2, Vulkan 2 and OpenCL
- ▶ Qualcomm Hexagon 685 DSP with dual-HVX512 for ultra low-power audio processing

### Memory/Storage

- ▶ 4GB LPDDR4x; 64GB UFS
- ▶ M.2-2280 SSD slot; µSD card slot

### Connectivity

- ▶ 802.11n/ac MU-MIMO WiFi; BluetoothLE 5.x via WCN3990

### Multimedia

- ▶ HDMI v2.0 4K60 Ultra HD + Type-C DP 4K @ 60 outputs
- ▶ HDMI Ultra HD @ 60 fps input with audio

### Operating System

- ▶ Android 10 board support package (BSP) pre-loaded

### Other Specifications

- ▶ **Power:** +12V/3A; 802.3at powered device (PD) compliant configuration for PoE\*
- ▶ **Size:** 175mm x 160mm x 25mm (with enclosure)
- ▶ **Operating Temp:** 0°C to 50°C
- ▶ **Relative Humidity:** 5 to 95% non-condensing
- ▶ **FCC certified**
- ▶ **Compliance:** RoHS and WEEE

\* Some features are SKU specific. Contact sales for SKUs with optional interfaces.

Ordering Information	
Part Number	Description
IFC6720-03-P2	Android OS, board only with power supply; does not include any of the optional interfaces
SYS6720-04-P2	Turnkey product with fanless metal enclosure (no optional features), heatsink, external antennae for WiFi & BT and brick power supply

## Contact Us

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### About Penguin Solutions

Penguin Solutions accelerates customers' digital transformation with the power of emerging technologies in HPC, AI, and IoT with solutions and services that span the continuum of edge, core, and cloud. The company designs highly advanced infrastructure, machines and networked systems that enable the world's most innovative enterprises and government institutions to build the autonomous future, drive discovery and amplify human potential. The Penguin Edge portfolio covers system on modules, single board computers and application-ready platforms that extend insight, intelligence, and analytical capabilities closer to where the data is generated - optimizing a range of use cases across industries and rugged environments.



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