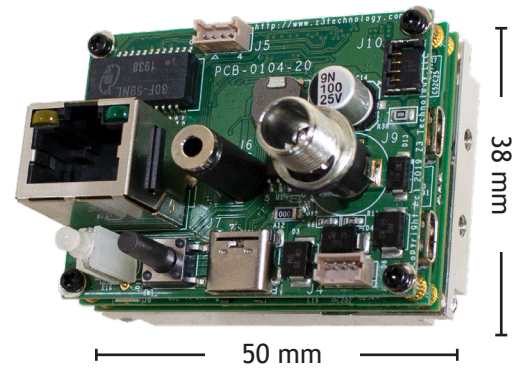




Z3-Q603-RPS

The Z3-Q603-RPS is a compact encoder system. The system offers encoding capabilities of H.265/HEVC and H.264 video up to 4K resolutions. The Z3-Q603-RPS features on-board interfaces including GigE, RS-485, KEL connections for Sony 4K cameras and LVDS HD cameras, Micro-HDMI 1.4 input, Micro-HDMI output and Composite video input. These features allow for a complete compact HEVC 4K & HD video encoding solution.



ORDERING OPTIONS

Q603-RPS

OEM Production Set

- Q603-RPS Encoder Boards

*Note: Sony FCB-EV & ECB-ER Series Camera Blocks and KEL ribbon cable sold separately**

Q603-RPS

OEM Starter Kit

- Q603-RPS Encoder Boards
- KEL Ribbon Cable
- Power Supply
- SDK
- Documentation

APPLICATIONS

- UAV and Drones
- Inspection
- Remote Monitoring
- Security and Surveillance
- Video Conferencing
- Customized Applications*

Hardware

Module	Z3-Q603-MOD
Application Board	Z3-Q603-APP
Processor	Qualcomm QCS603 system on chip processor, Quad core Arm v8, two cores at 1.6 GHz, two at 1.7 GHz, Snapdragon neural processing engine, Adreno 615 graphics at 780 MHz
Video Inputs	HDMI 1.4 from Micro-HDMI jack at up to 4Kp30 LVDS from KEL connector, KEL connector for 4K cameras Composite Video
Video Output	HDMI 1.4 on Micro-HDMI
Video Codecs	H.265, H.264, MJPEG encode
Audio Interfaces	Embedded from HDMI
Audio Codecs	HE-AAC, HEv2-AAC, AAC-LC
Interfaces	Sony 4K Camera KEL Input Aux Power In/Out LVDS HD Camera KEL Input Gigabit Ethernet HDMI 1.4 Input UART HDMI 1.4 Output Serial RS-232 Composite Video In RS-485 Bluetooth 5.0 WiFi 802.11am dual band 433 Mbps

Software

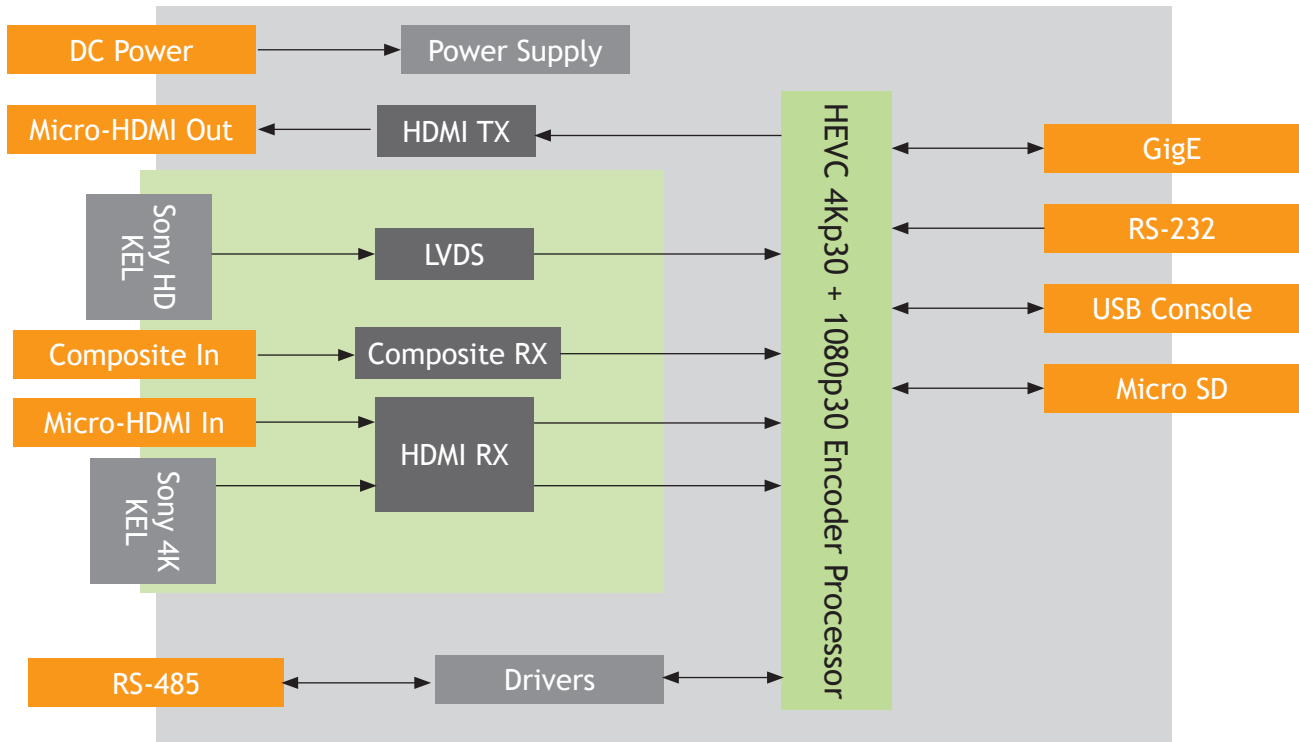
Operating System	Embedded Linux (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	H.265 video encode at up to 4K, 30fps with multi-stream support
Output Formats	RTP, RTSP, MPEG-2 TS over UDP, RTMP, TSRTSP, MPTS and TS File
Features	<ul style="list-style-type: none"> • Low Latency • ONVIF® Profile S & T Compliant • Easy-to-Use HTTP-Based Control Interface • Fully controllable parameters; resolution, max bitrate, GOP and on the fly bitrate control • WiFi 802.11ac dual band 4.33 Mbps • Bluetooth 5.0 • Zixi Feeder Enabled

Specifications

Encoder Size	50 x 40 x 38 mm
Encoder Weight	76g
Power Supply Options	1-cell Li battery (on board charger) USB Type-C bus power 12V DC
Power Consumption	5W typical



Z3-Q603-RPS



***Contact Z³ Technology for Customized Product Options**
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Z³ Technology is an industry-leading, USA-based manufacturer of production-ready embedded multimedia solutions and IP camera systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your multimedia product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.