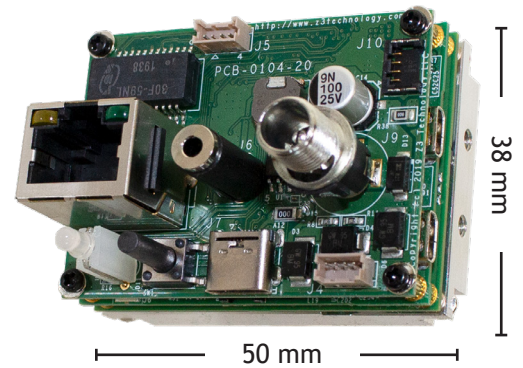




Z3-Q603-RPS

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 Gb Ethernet, 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 & FCB-ER Series Camera Blocks and KEL ribbon cable sold separately**

Q603-RPS

OEM Starter Kit

- Q603-RPS Encoder Boards
- Cables:
 - KEL Ribbon cable
 - uFL to BNC cable
 - uFL to RP-SMA for WiFi antenna
 - Serial cable & Null Modem adapter
- Power Supply
- SDK
- Documentation

APPLICATIONS

- Video Streaming & Recording for Embedded 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	<table border="0"> <tr> <td>Sony 4K Camera KEL Input</td> <td>Aux Power In/Out</td> </tr> <tr> <td>LVDS HD Camera KEL Input</td> <td>Gigabit Ethernet</td> </tr> <tr> <td>HDMI 1.4 Input</td> <td>UART</td> </tr> <tr> <td>HDMI 1.4 Output</td> <td>Serial RS-232</td> </tr> <tr> <td>Composite Video In</td> <td>RS-485</td> </tr> <tr> <td>Bluetooth 5.0</td> <td></td> </tr> <tr> <td>Wifi 802.11ac with MU-MIMO up to 433 Mbps (IEEE802.11 a/b/g/n/ac)</td> <td></td> </tr> </table>	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 802.11ac with MU-MIMO up to 433 Mbps (IEEE802.11 a/b/g/n/ac)	
Sony 4K Camera KEL Input	Aux Power In/Out														
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Software

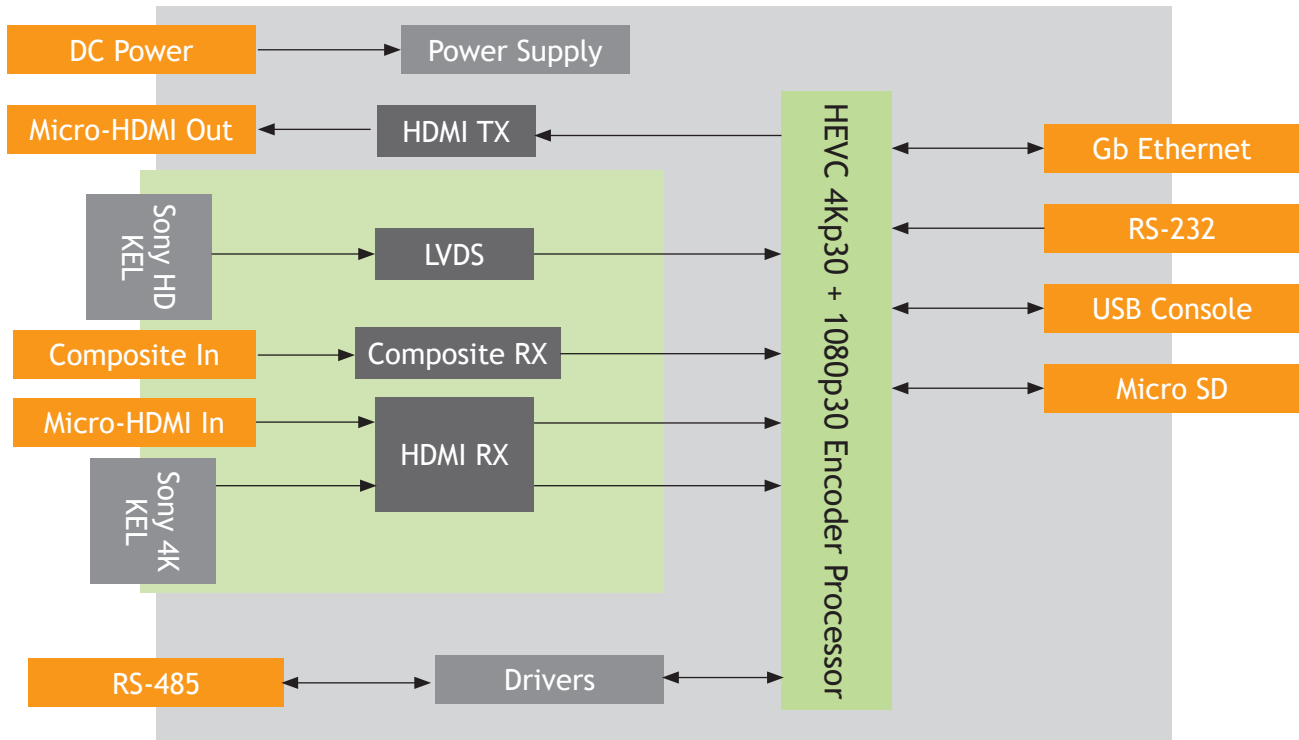
Operating System	Embedded Linux (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	H.265 video encode at up to 4K, 30fps with multi-stream support
Output Formats	RTP, RTSP, MPEG-2 TS over UDP, RTMP, TSRTSP, MPTS and TS File
Features	<ul style="list-style-type: 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 • Zixi Feeder Enabled

Specifications

Encoder Size	50 x 40 x 38 mm
Encoder Weight	43g (heat pipe is an additional 38g)
Power Supply Options	1-cell Li battery (on board charger) USB Type-C bus power 12V DC
Power Consumption	5.5W typical



Z3-Q603-RPS



***Contact Z³ Technology for Customized Product Options**
sales@Z3technology.com +1.402.323.0702 www.Z3technology.com



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.