



# Q603-15

The Q603-15 offers a small form factor single camera H.265 or H.264 encoder with flexibility to support either visible or thermal cameras. The encoder supports HD and 4K cameras with full compatibility to Sony's FCB 4K and HD camera line and compatibility to the Flir Boson and Tau2. The encoder can be controlled through the web user interface, Serial, the API or ONVIF.



## ORDERING OPTIONS

### Q603-15-RPS OEM Starter Kit

- Q603-15 Encoder Board
- Cables:  
KEL Ribbon Cable  
Serial Cable & Null Modem Adapter  
CBL-0047-01 (Power Cable)  
CBL-0048-01 (Ethernet Cable)
- Power Supply
- SDK

### OEM Production Set

- Q603-15 Low Profile Encoder
- Q603-10 Full Feature Encoder
- Q603-10W Encoder Board with WiFi

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

## APPLICATIONS

Video Streaming & Recording for Embedded Applications

UAV and Drones

Inspection

Remote Monitoring

Security and Surveillance

Customized Applications\*

## Hardware

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
Visible Compatible Cameras	Sony 4K Cameras FCB-EW9500H, FCB-ER8300, and FCB-ER8530/8550 Sony LVDS Cameras: FCB-EV9500L and FCB-EV7520
Thermal Compatible Cameras	Flir Tau2 and Flir Boson
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	100 Megabit Ethernet 2 UARTS, 2 GPIO Micro-SD Card Slot

## Software

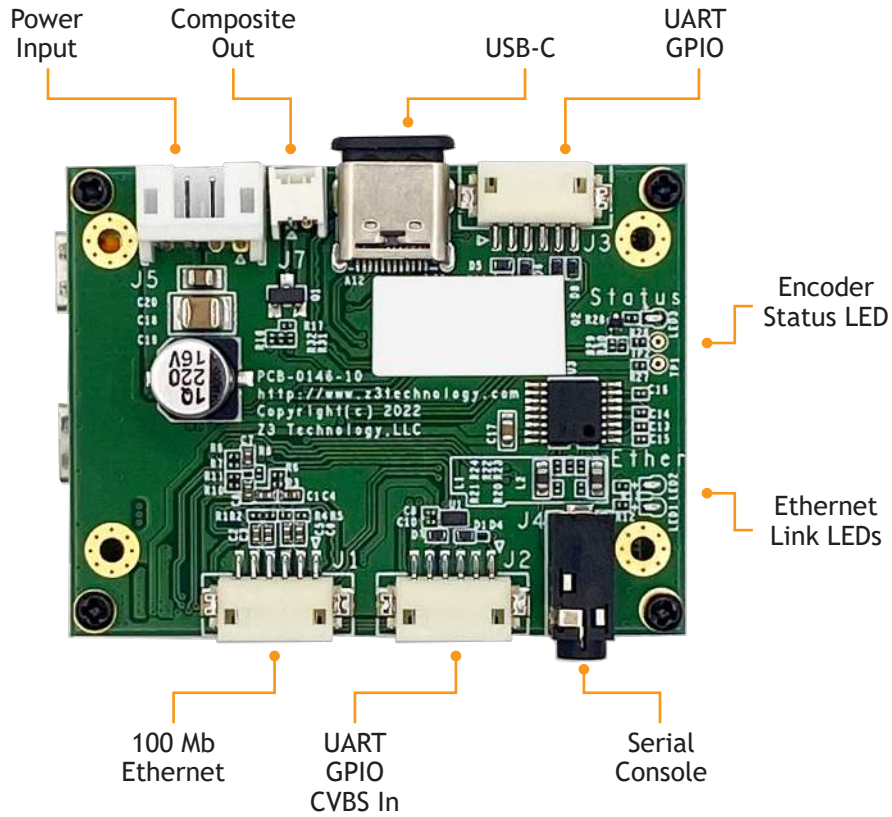
Operating System	Embedded Linux (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	H.265 video encode at up to 4Kp30
Output Formats	RTP, RTSP, MPEG-2 TS over UDP, RTMP, TSRTSP, MPTS, TS File, RTMPS, MP4, SRT Modes: Caller, Sender, Rendezvous & SRT Encryption
Features	HTTP/HTTPS Web Gui with Live Video Preview Pass Visca Camera Controls over IP Simultaneous Stream and Record Timestamp Overlay Support RTSP Authentication Cropping to the Aspect Ratio with the Sony EW9500 Camera Overlay NMEA and GPS Data Pelco D PTZ Position and ONVIF Absolute PTZ Support and PTZ Tours WiFi 802.11am dual band 4.33 Mbps* Record to NFS or Micro SD-Card

## Specifications

Encoder Size	50 x 27 x 38 mm
Power Supply Options	1-cell Li battery (on board charger) USB Type-C bus power 12V DC
Power Consumption	4.5W typical
Weight	35g (heat pipe is an additional 36g)



\*See Ordering Options



**\*Contact Z<sup>3</sup> Technology for Customized Product Options**  
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